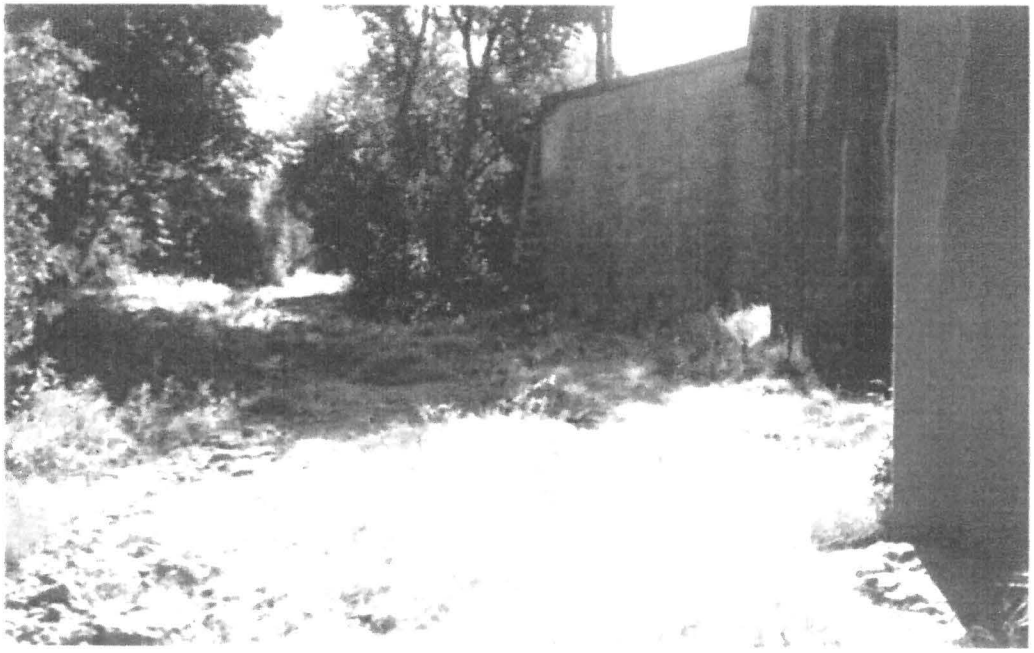
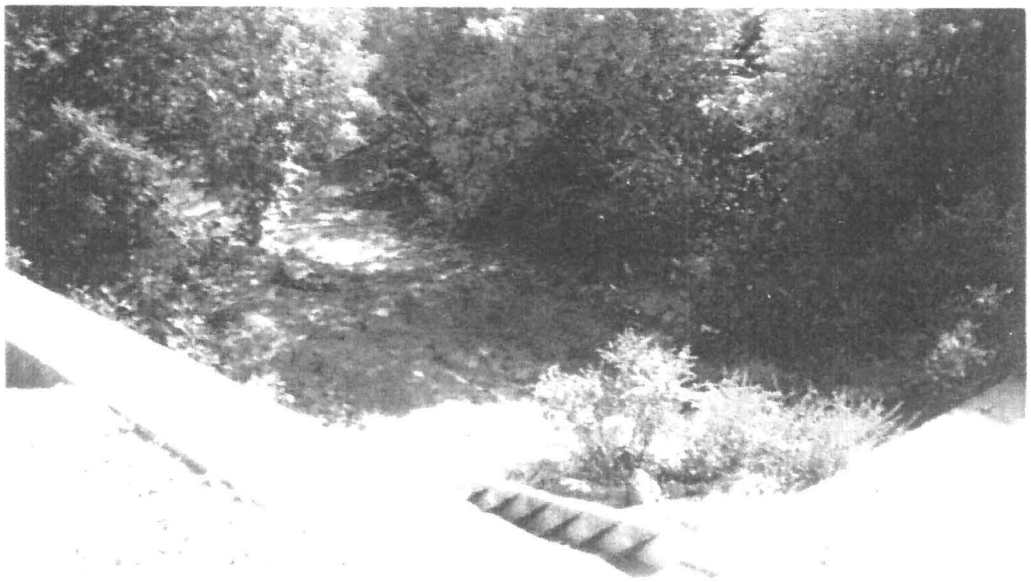
TECHNICAL SUPPORT DATA NOTEBOOK
FOR
LOWER UVAS CARNADERO CREEK
AUGUST 2000



Santa Clara Valley Water District



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BEYOND ENGINEERING

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SECTION 1
GENERAL
DOCUMENTATION

SANTA CLARA VALLEY WATER DISTRICT
LIBRARY
5750 ALMADEN EXPRESSWAY
SAN JOSE, CALIFORNIA 95118

GENERAL CORRESPONDENCE INDEX

Santa Clara, California

(COMMUNITY NAME, STATE)

FLOOD INSURANCE STUDY

CONTACT REPORT DATE	CONTACT PERSON	AGENCY	ID NO.
June 20, 1991	Chuck Anderson - Nolte	Telephone Call	002.pdf
December 17, 1993	Craig Giordano - Nolte	Letter	003.pdf

250-89-00 E
-89-21 N

FLOOD INSURANCE STUDY - CONTACT REPORT

NAME OF COMMUNITY	DATE
SANTA CLARA COUNTY	6-20-91

CONTACT REPORT BY

NAME OF PERSON REPORTING	NAME OF OFFICE
Chuck Anderson	Nolte - San Jose

METHOD OF CONTACT

☐ Correspondence ☑ Telephone ☐ Visit

OTHER INDIVIDUALS INVOLVED

Name/Title	Address	Telephone Number
Norm Allen	City of Gilroy	

SUBJECT Lower Uvas Creek

SUMMARY OF CONTACT

Gilroy has received LOMR for reach between our upper and lower portions (Corps levees). They are going to appeal: LOMR shows flooding outside of levees for about 1/4 mi above Thomas Road but no BFE's. Water makes "end around" levees on D/S end. Will we map in our study?

(We will retrace all flow from our study area)

0250-89-21P

San Jose

December 17, 1993
0250-89-00 E
0250-89-21 P

Mr. Norm Allen
City of Gilroy
7351 Rosanna Street
Gilroy, CA 95020

Subject: Santa Clara County Flood Insurance Study
Response to Questions

Dear Norm:

This is both to formalize discussions we have had since the November 29, 1993 Intermediate Meeting regarding the Lower Uvas Creek study, and to answer one outstanding question on the same stream.

1. Previous Questions:

   a. **Q.** What was the 1% flow rate used in the current study at the downstream end of the new Corps of Engineers' levee?

      A. 14,600 cfs

   b. **Q.** In the current analysis, what flow rate would pass under Highway 101 during the 1% event?

      A. Depending upon which levee failure case is examined, the flow under Highway 101 during a 1% event would range between about 7,960 cfs and 8,900 cfs.

2. Outstanding Question:

   Q. What was the basis of the calculations which set the 1% ponding elevation west of Highway 101 in the vicinity of Princevale Drain at 189'?

   A. Chuck Anderson provided the following information:

   - The profile for the Highway was obtained from the spot elevation data produced for the original Flood Insurance Study in 1976.

   - Although quite aware of the Princevale Drain culvert, Chuck did NOT

n:\sj\sj025089\coordntn\wp51\questre.lt2

NOLTE and ASSOCIATES
Engineers / Planners / Surveyors

60 South Market Street, Suite 600, San Jose, CA 95113 Tel. (408) 287-3400 FAX No. (408) 287-6906

assume that it would be available for conveyance of spill flows from Lower Uvas Creek, as in the 1% event, the culvert would already be at capacity from local drainage.

I concur with Chuck's assumption regarding the Princevale Drain culvert.

As an additional check of the flood elevation, I used the elevation that you provided for the crown of road in that vicinity (188.2'), in the weir equation as follows:

$$Q = CLH^{3/2} = 560 \text{ cfs}$$

where:

C = discharge coefficient = 2.6
L = 900 feet (measured from County Map)
H = Depth of flow over the road

This resulted in H = 0.4' ==> Elevation = 188.6'. This calculation likely slightly underestimates the flood elevation as it assumes that the roadway is flat for 900 feet at elevation 188.2'. Therefore, the elevation estimate of 189' appears to be reasonable.

I trust that this has been responsive to your questions and comments thus far. However, if you should desire any additional clarification, please feel free to contact me before December 23, 1993 at 408-287-3400, or Scott Lyle after that date at 619-278-9392. Thank you.

Very truly yours,

NOLTE and ASSOCIATES

Craig S. Giordano, P.E.
Engineering Manager

cc: Mr. Les Sakumoto, FEMA Region IX

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NOLTE and ASSOCIATES Inc.

SECTION 2
HYDROLOGIC
ANALYSES

HYDROLOGIC ANALYSES REPORT INDEX

Santa Clara, California

(COMMUNITY NAME, STATE)

FLOOD INSURANCE STUDY

STREAM NAME	DESCRIPTION	FILE NAME	ID NO.
Lower Uvas	Summary of Discharges	002.pdf	N/A
Lower Uvas	Available Hydrology	003.pdf	
Lower Uvas	Lower Uvas Creek discharges	004.pdf	

0250-89-00 E

San Jose

July 8, 1991
0250-89-02

Mr. Abdullah Saah
District Hydrologist
Santa Clara Valley Water District
6489 Camden Avenue
San Jose, CA 95120

Dear Mr. Saah:

Nolte and Associates is currently preparing revisions to several existing Flood Insurance Studies (FIS) in Santa Clara County as consultant to the Federal Emergency Management Agency (FEMA). We are submitting for your review the enclosed information covering the discharges for the creeks under your jurisdiction. Most of the discharges listed in the table have been published in the previous FIS reports and were obtained and coordinated with you through several meetings and phone conversations. We have yet to revise the flow rates on the Sunnyvale East and Sunnyvale West Channels. The final coordinate flow rates will be published in the final report for this study.

The majority of the flow rates were based on the Urban Hydrology Methodology and Regional Regression Equations developed by the District. The flow rates shown reflect existing conditions in the watershed and take into account of attenuation of overbank storage. Our study is focused on the 100-year flood event and the revision of peak flow rates for the creek becomes necessary only if the difference in discharge exceeds ±20% of the flow quantity.

We appreciate your active participation and full cooperation of this project and look forward to your concurrence in the use of enclosed flow rates for the Flood Insurance Study.

Very truly yours,

NOLTE AND ASSOCIATES

James C. Wang

James C. Wang, Ph.D.
Chief Hydrologist and Engineering Manager

Enclosures

cc: Les Sakamoto, FEMA, Region IX

/c10975-e/11b

NOLTE and ASSOCIATES
Engineers / Planners / Surveyors

60 South Market Street, Suite 600, San Jose, CA 95113 Tel. (408) 287-3400 FAX No. (408) 287-6906

S.C.A.L.E.S. 07/08/91

SUMMARY OF DISCHARGES

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (SQU. MI)	PEAK DISCHARGES 100-YEAR (CFS)
ALAMITOS CREEK		
U/S OF CONFLUENCE W/ARROYO CALERO	16.2	4,750
D/S OF CONFLUENCE W/ARROYO CALERO	28.6	6,750
D/S OF CONFLUENCE W/RANDOL CRK	31.6	7,380
D/S OF CONFLUENCE W/GREYSTONE CRK	33.8	7,800
D/S OF CONFLUENCE W/GOLF CRK	37.4	8,680
U/S OF CONFLUENCE W/GUADALUPE R.	38.0	8,860
SOUTH BABB CREEK		
AT CLAYTON RAOD	3.7	890
U/S OF WHITE ROAD	3.9	570
D/S OF WHITE ROAD	3.9	390
AT CONFLUENCE WITH SILVER CREEK	4.0	290
BERRYESSA CREEK		
AT CONFLUENCE WITH SIERRA CREEK	7.7	2,580
D/S OF CONFLUENCE W/LOS COCHES CR	15.1	1,500
AT CONFLUENCE W/TULARICITOS CRK	17.0	2,120
AT CONFLUENCE W/WRIGLEY DITCH	18.6	2,350
AT CONFLUENCE W/CALERA CRK	21.5	2,730
CALABAZAS CREEK		
U/S OF KIFER ROAD	17.1	3,000
U/S OF U.S. HIGHWAY 101	19.1	3,200
D/S OF U.S. HIGHWAY 101	19.1	4,780
U/S OF STATE HIGHWAY 237	20.5	5,000
CALERA CREEK		
ABOVE HIGHWAY 680	2.4	850
ABOVE MAIN STREET	2.9	920
CANOAS CREEK		
AT COTTLE ROAD	4.6	510
AT SANTA TERESA BOULEVARD	7.4	830
AT BLOSSOM HILL ROAD	12.5	1,400
AT CAPITOL EXPWY	17.6	1,960
U/S OF NIGHTENGALE DRIVE	18.6	2,350
AT CONFLUENCE W/GUADALUPE R.	18.6	1,970
CORRALITOS/TENNANT CREEK		
U/S OF TENNANT	1.3	560
D/S OF TENNANT	3.9	1,600
U/S OF EAST LITTLE LLAGAS	5.6	2,200
GUADALUPE RIVER		
AT BLOSSOM HILL ROAD	53.2	11,500
D/S OF CONFLUENCE W/ROSS CRK	65.2	12,500

U/S OF CONFLUENCE W/CANOAS CRK	70.0	12,000
D/S OF CONFLUENCE W/CANOAS CRK	88.6	12,800
AT MALONE ROAD	90.0	11,900
AT SOUTHERN PACIFIC RAILROAD	92.1	10,900
AT INTERSTATE HIGHWAY 280	95.0	7,000
EAST LITTLE LLAGAS CREEK		
UPSTREAM OF SEYMOUR AVE	6.2	460
AT U.S. HIGHWAY 101	8.0	1,300
WEST LITTLE LLAGAS CREEK		
UPSTREAM OF LLAGAS AVENUE	1.0	400
1000' UPSTREAM OF WRIGHT AVE	1.5	350
AT FOURTH STREET	3.0	600
UPSTREAM OF MONTEREY RD	5.6	1,380
DOWNSTREAM OF MONTEREY RD	5.6	200
DOWNSTREAM OF S.P.R.R.	6.0	200
WEST BRANCH LLAGAS CREEK		
UPSTREAM OF GOLDEN GATE AVE	5.6	1,500
LOS COCHES CREEK		
AT U/S CONFLUENCE W/BERRYESSA CRK	4.0	1,420
LOS GATOS CREEK		
AT STATE HIGHWAY 17	48.8	7,300
MADRONE CHANNEL		
U/S OF EAST LITTLE LLAGAS	5.1	2,100
PERMANENTE DREEK		
U/S OF U.S. HIGHWAY 101	15.8	1,400
D/S OF U.S. HIGHWAY 101	15.8	1,340
D/S OF E. CHARLESTON RD	16.1	1,390
SAN TOMAS AQUINO CREEK		
AT CONFLUENCE W/SARATOGA CRK	39.1	7,100
D/S OF S.P.R.R.	39.3	6,780
AT U.S. HIGHWAY 101	41.8	7,260
AT STATE HIGHWAY 237	45.1	7,550
UPPER SILVER CREEK	6.0	1,830
SUNNYVALE EAST CHANNEL		
SUNNYVALE WEST CHANNEL		
UVAS/CARNADERO CREEK		
D/S OF HECKER PASS RD	65.1	13,600
AT U.S. HIGHWAY 101	71.6	8,300

Available Hydrology

Uvas Creek

Location	1% Discharge (cfs) / Source			
	FIS Archive	FIS Pub.	SCVWD LOMR	USACOE Design
Confl. w/ Little Uvas	5,425	--	--	--
Gage Above Dam	7,647	--	--	--
Inlow to Res.	11,100	--	--	--
Flow out of Res.	7,800	--	--	--
U/S Little Arthur Ck	8,497	--	--	--
D/S Little Arthur Ck	10,362	--	--	--
U/S Bodfish Ck	10,909	--	--	--
Hecker Pass Hwy	13,544	13,600	13,550	17,000
D/S Santa Teresa	14,000	--	14,000	17,000
Miller Ave.	14,225	--	--	--
U.S. 101	14,424	8,300	--	--
SPRR	14,556	--	--	--

UVAS CARNADERO CREEK (LOWER)
HYDROLOGIC ANALYSES

The flow rates for Uvas Carnadero Creek (Lower) were reconstructed from Santa Clara County Flood Insurance Study, May 1977, prepared by Nolte and Associates and Letter of Map Revision, April 18, 1991, prepared by Santa Clara Valley Water District.

Discharges were developed from HEC-1 analysis and hyrographs were balanced to match 1976 regional regression (see Section P. General Correspondence). Flow rates are not reduced for capacity restrictions.

Location	Q100
Thomas Road	14,000 cfs
U.S. 101	14,400 cfs
SPRR	14,600 cfs

WATER SURFACE INDEX

Santa Clara, California

(COMMUNITY NAME, STATE)

FLOOD INSURANCE STUDY

FILE NAME	DESCRIPTION	AGENCY	ID NO.
1lob.hc2	N/A	N/A	N/A
1lob.out			002.pdf
3loba.hc2			
4roba.hc2			
Case1a.hc2			
Case1a.out			003.pdf
Case2a.hc2			
Case2a.out			004.pdf
Case3a.hc2			
Case3a.out			005.pdf
Case4a.hc2			
Case4a.out			006.pdf
Case5a.hc2			
Case5a.out			007.pdf
Rb101_4a.hc2			
Rb101_4a.out			008.pdf
Rb101_5a.hc2			
Rb101_5a.out			009.pdf
Rrbridge.hc2			

SECTION 3
HYDRAULIC
ANALYSES

HEC-2 MODELS

WATER SURFACE INDEX

Santa Clara, California

(COMMUNITY NAME, STATE)

FLOOD INSURANCE STUDY

FILE NAME	DESCRIPTION	AGENCY	ID NO.
Rrbridge.out	N/A	N/A	010.pdf
S-d101.hc2			
S-d101.out			011.pdf
S-dcreek.hc2			
S-dcreek.out			012.pdf
S-dcrkl.hc2			
S-dcrkl.out			013.pdf
S-dmont.hc2			
S-dmont.out			014.pdf
S-dsprr.hc2			
S-dsprr.out			015.pdf
S-dsprrl.hc2			
S-dsprrl.out			016.pdf
Seed1a.hc2			
Seed1a.out			017.pdf
Seed3a.hc2			
Seed3a.out			018.pdf

WATER SURFACE INDEX

Santa Clara, California

(COMMUNITY NAME, STATE)

FLOOD INSURANCE STUDY

FILE NAME	DESCRIPTION	AGENCY	ID NO.
1lob.hc2	N/A	N/A	N/A
1lob.out			002.pdf
3loba.hc2			
4roba.hc2			
Case1a.hc2			
Case1a.out			003.pdf
Case2a.hc2			
Case2a.out			004.pdf
Case3a.hc2			
Case3a.out			005.pdf
Case4a.hc2			
Case4a.out			006.pdf
Case5a.hc2			
Case5a.out			007.pdf
Rb101_4a.hc2			
Rb101_4a.out			008.pdf
Rb101_5a.hc2			
Rb101_5a.out			009.pdf
Rrbridge.hc2			

HEC2 S/N: ********** HMVersion: 6.40 Data File: 1LOB.HC2

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*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
 RUN DATE    10JAN94    TIME   10:40:28   *
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 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
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X     X  X        X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
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H A E S T A D   M E T H O D S
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS RUN EXECUTED 10JAN94 10:40:28

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************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
************************************



SPLIT FLOW BEING PERFORMED


SF      Spill over SPRR


JC      Left Overbank (Case 1)
JP                      -1.

TW  Sec 265 to 264
WS2.    264.    265.    -1.     2.6
WCO.    186.9   300.    187.1

TW  Sec 264 to 262
WS2.    262.    264.    -1.     2.6
WCO.    186.7   200.    186.9

TW  Sec 262 to 260
WS2.    260.    262.    -1.     2.6
WCO.    185.1   1000.   186.7

TW  Sec 260 to 258
WS2.    258.    260.    -1.     2.6
WCO.    184.2   400.    185.1

TW  Sec 258 to 252
WS2.    252.    258.    -1.     2.6
WCO.    182.5   600.    184.2

TW  Sec 252 to 246
WS2.    246.    252.    -1.     2.6
WCO.    181.1   500.    182.5

TW  Sec 246 to 226
WS2.    226.    246.    -1.     2.6
WCO.    180.6   200.    181.1

TW  Sec 226 to 224
WS2.    224.    226.    -1.     2.6
WCO.    178.9   600.    180.6
```

```
TW  Sec 224 to 222
WS2.    222.    224.    -1.     2.6
WC0.    175.7   1200.   178.9

TW   Sec 222 to 220
WS2.    220.    222.    -1.     2.6
WC0.    174.9   800.    175.7
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   Run Date:  10JAN94    Run Time: 10:40:28    HMVersion: 6.40    Data File:   1LOB.HC2                          Page    3

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)        LEFT OVERBANK AREA BETWEEN SPRR AND 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

          2.                                                                        174.77

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.                -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Ponding Elev. U/S Of SPRR
  SPRR Grade from Aerial Photo Top of (Rail )road Profile


QT  1.       2946.
NC                                  .1          .3

NH  4.       .05        4939.8     .035        5089.1      .12         6776.6      .045        9648.2

        START AT PONDING ELEV. U/S SPRR

X1  220.0    28.0       4939.8     5089.1      700.        792.2       832.9
X3                                 3282.7                  4859.5
GR  174.9    3242.6     174.9      3282.7      169.3       3310.5      170.7       3324.3      179.6       4815.6
GR  180.9    4859.5     179.9      4939.8      159.3       4987.3      159.3       5000.0      159.3       5020.1
GR  180.3    5089.1     177.8      5755.7      180.1       6769.5      181.5       6776.6      181.5       6801.1
GR  179.5    6817.7     179.4      6827.1      182.0       6849.6      181.6       6884.0      178.0       6905.4
GR  179.8    6916.3     172.6      8522.3      174.3       9384.1      170.3       9396.8      170.3       9400.3
GR  174.2    9406.0     186.4      9458.5      195.4       9648.2


NH  4.       .05        4955.0     .035        5072.1      .12         6451.3      .045        9633.8
X1  222.0    28.0       4955.0     5072.1      857.3       703.5       806.7
X3                                 3297.7                  4909.6
GR  175.6    3268.0     175.6      3297.7      171.2       3312.3      176.8       4408.9      181.0       4902.0
GR  183.2    4909.6     182.9      4955.0      160.4       4986.9      160.4       5000.0      160.4       5025.7
GR  181.8    5072.1     180.9      5247.9      182.4       6451.3      182.4       6475.6      183.8       6489.5
GR  183.7    6528.2     181.9      6567.0      181.4       6795.3      180.0       6799.5      175.2       8299.1
GR  176.0    8967.4     174.9      8975.3      176.6       8982.3      183.6       9492.3      199.1       9524.3
GR  198.7    9569.8     201.3      9587.2      201.5       9633.8


NH  5.       .05        4251.3     .045        4949.0      .035        5064.6      .12         6351.3      .045
NH  9467.
```

```
X1   224.0    28.0       4949.0     5064.6     1220.       416.9      743.0
X3                                  3034.0                4919.1
GR   178.8    3010.0     178.8      3034.0     174.3      3052.8     178.9      4251.3     182.0      4815.1
GR   183.7    4907.2     186.4      4919.1     185.4      4949.0     164.6      4983.1     164.6      5000.0
GR   164.6    5017.8     183.7      5064.6     183.3      5241.1     183.4      6242.7     183.4      6310.1
GR   181.7    6325.2     184.7      6351.3     183.3      6386.9     181.2      6404.2     176.3      7944.5
GR   177.0    8800.6     175.9      8808.5     177.6      8815.5     184.6      9325.5     199.1      9357.5
GR   198.7    9403.0     201.3      9420.4     201.5      9467.0

NC   .045     .05        .035
QT   1.       1995.
X1   226.0    20.0       4945.5     5060.4     590.       400.       841.1
X3                                  2251.1                3518.1
GR   180.2    2224.1     180.5      2251.1     175.2      2267.7     178.0      3416.3     179.1      3518.1
GR   175.2    3601.8     177.5      3609.1     182.3      4401.4     184.9      4591.6     186.8      4722.8
GR   187.4    4908.2     185.3      4945.5     165.7      4983.6     165.7      5000.0     165.7      5031.5
GR   186.3    5060.4     177.5      5116.9     176.7      5233.8     185.6      5288.4     184.6      5685.8

X1   246.0    34.0       4943.3     5036.5     200.       400.       389.5
X3                                  2122.2                4200.
GR   181.1    2099.9     181.1      2122.2     175.3      2135.8     179.1      3207.4     183.7      4161.6
GR   184.8    4209.9     186.7      4218.2     186.8      4246.9     185.6      4256.8     186.0      4273.7
GR   186.0    4300.0     184.4      4313.0     185.6      4338.4     185.0      4398.7     185.3      4489.2
GR   186.7    4504.6     186.6      4529.6     185.5      4536.6     186.8      4831.9     187.5      4943.3
GR   169.3    4987.4     169.3      5000.0     169.3      5018.0     187.2      5036.5     186.3      5207.1
GR   183.8    6460.      183.1      6700.      182.5      7450.      180.8      7460.      184.1      7476.
GR   186.0    7668.      195.2      7694.      198.3      7757.      197.9      7800.

X1   252.0    30.0       4963.9     5056.5     550.       640.       520.8
X3                                  1977.8                3800.
GR   182.5    1953.8     182.5      1977.8     177.0      1996.2     181.1      2612.0     184.0      3727.5
GR   186.3    3771.5     186.3      3796.7     185.9      3807.2     190.3      3834.3     189.6      3872.7
GR   189.6    3886.1     191.0      3905.3     190.2      3986.8     188.0      4016.5     188.0      4048.7
GR   186.9    4060.0     190.8      4927.5     190.8      4941.6     190.8      4963.9     171.9      4992.8
GR   171.9    5000.0     171.9      5011.5     191.1      5056.5     189.8      5143.9     186.9      6480.
GR   189.2    6640.      194.4      6810.      199.1      7110.      201.2      7200.      203.9      7300.

X1   258.0    26.0       4940.7     5047.3     575.       150.0      147.3
X3                                  2158.1                3100.
GR   184.2    2126.7     184.2      2158.1     178.4      2180.7     184.6      3244.4     186.6      3583.9
GR   189.0    3639.7     190.5      3696.2     193.0      3765.5     191.5      3795.2     194.1      3829.5
GR   194.6    3887.2     189.9      3905.4     189.1      4146.8     192.3      4910.9     192.3      4940.7
GR   174.0    4981.0     174.0      5000.0     174.0      5019.6     193.7      5047.3     191.8      5149.1
GR   192.0    5540.      190.5      6050.      190.7      6185.      199.3      6410.      194.8      6890.
GR   205.1    7350.
```

```
X1   260.0    30.0      4943.9    5063.9    450.      532.8     771.2
X3                                2868.1              3900.
GR   185.1    2858.8    185.1     2868.1    182.6     2876.3    184.6     2883.9    184.6     2898.8
GR   179.6    2915.8    184.6     3847.6    186.2     3937.8    189.3     4016.1    189.2     4085.8
GR   185.8    4101.9    185.8     4112.4    188.9     4130.7    191.3     4198.1    194.3     4244.7
GR   191.7    4272.5    197.1     4377.7    189.1     4403.4    193.2     4926.6    193.2     4943.9
GR   174.5    4979.2    174.5     5000.0    174.5     5018.7    194.8     5063.9    193.8     5255.6
GR   193.2    5975.     192.9     6115.     192.1     6385.     195.8     6900.     212.5     7600.

X1   262.0    34.0      4943.0    5075.7    1000.     654.0     595.2
X3                                2915.7              3350.
GR   186.7    2881.8    186.7     2915.7    181.5     2939.7    182.5     3202.9    188.4     3262.9
GR   188.5    3329.4    189.8     3416.7    187.7     3527.2    204.5     3550.5    205.0     3660.1
GR   207.3    3762.1    204.1     3803.5    205.8     3846.7    205.4     3922.7    190.6     3957.8
GR   190.6    3970.1    195.9     4003.7    195.9     4044.5    185.8     4071.5    188.3     4107.5
GR   186.2    4150.8    192.4     4901.3    192.4     4926.0    192.4     4943.0    174.7     4981.6
GR   174.6    5000.0    174.6     5036.4    193.6     5075.7    193.9     5470.     194.5     5630.
GR   193.9    5930.     202.6     6500.     202.6     7160.     215.0     8000.

X1   264.0    35.0      4904.2    5063.3    200.      118.6     187.8
X3                                2727.               3006.3
GR   186.6    2690.0    186.9     2727.0    181.8     2752.8    183.0     2897.3    216.9     3006.3
GR   217.1    3105.6    215.7     3123.2    216.9     3153.3    214.4     3227.1    203.9     3270.1
GR   201.3    3295.2    188.6     3328.7    188.0     3426.4    195.4     3465.1    191.5     3542.8
GR   184.1    3574.1    183.6     3611.9    189.6     3666.0    190.3     3708.8    186.2     3739.5
GR   187.6    3770.7    188.5     4264.8    194.9     4882.2    194.9     4904.2    178.9     4942.8
GR   174.0    4978.8    173.6     5000.0    173.9     5026.2    194.9     5063.3    194.6     5130.6
GR   194.5    5550.     193.9     5850.     202.6     6410.     202.6     7080.     215.0     7920.
```

Section based on field measurement 5/28/92

NORTHBOUND HIGHWAY 101

```
X1   265.     15.       74.       83.       200.      200.      200.
X3                                30.
GR   187.5    0.        185.5     5.        185.5     15.       187.5     20.       187.5     30.
GR   183.5    44.       182.7     60.       220.      60.1      220.      64.9      182.5     65.
GR   182.0    74.       180.5     77.       180.5     80.       182.0     83.       193.3     100.
```

```
   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1


CCHV=     .100 CEHV=     .300
1490 NH CARD USED
*SECNO 220.000

3470 ENCROACHMENT STATIONS=     3282.7    4859.5  TYPE=      1  TARGET=     1576.800

        START AT PONDING ELEV. U/S SPRR

  220.000     15.47    174.77       .00    174.77    174.83       .06       .00       .00 100000.00
   2943.6    2943.6        .0        .0    1527.9        .0        .0        .0        .0 100000.00
      .00      1.93       .00       .00      .050      .000      .000      .000    159.30   3283.35
  .001499      700.      833.      792.         0         0         0       .00    722.93   4006.28


1490 NH CARD USED
*SECNO 222.000

3470 ENCROACHMENT STATIONS=     3297.7    4909.6  TYPE=      1  TARGET=     1611.900
  222.000     15.32    175.72       .00       .00    175.75       .03       .92       .00 100000.00
   2943.8    2943.8        .0        .0    2030.1        .0        .0      35.0      16.0 100000.00
      .16      1.45       .00       .00      .050      .000      .000      .000    160.40   3297.70
  .000804      857.      807.      704.         2         0         0       .00    898.81   4196.51


1490 NH CARD USED
*SECNO 224.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .50


3470 ENCROACHMENT STATIONS=     3034.0    4919.1  TYPE=      1  TARGET=     1885.100
  224.000     12.83    177.43       .00       .00    177.51       .08      1.75       .01 100000.00
   2943.8    2943.8        .0        .0    1295.3        .0        .0      81.6      40.1 100000.00
      .31      2.27       .00       .00      .050      .000      .000      .000    164.60   3039.73
  .003222     1220.      743.      417.         4         0         0       .00    828.14   3867.87


*SECNO 226.000
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.68


3470 ENCROACHMENT STATIONS=     2251.1    3518.1  TYPE=      1  TARGET=     1267.000
   226.000     12.54    178.24       .00       .00    178.26       .02       .75       .01 100000.00
    1992.8    1992.8        .0        .0    1898.0        .0        .0     103.2      53.7 100000.00
       .47      1.05       .00       .00      .045      .000      .000      .000    165.70   2258.19
   .000526      590.      841.      400.         2         0         0       .00   1180.10   3438.29


*SECNO 246.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .68


3470 ENCROACHMENT STATIONS=     2122.2    4200.0  TYPE=      1  TARGET=     2077.800
   246.000      9.08    178.38       .00       .00    178.41       .03       .15       .01 100000.00
    1992.8    1992.8        .0        .0    1350.5        .0        .0     110.7      58.5 100000.00
       .51      1.48       .00       .00      .045      .000      .000      .000    169.30   2128.57
   .001123      200.      390.      400.         3         0         0       .00    876.36   3004.94


*SECNO 252.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .35


3470 ENCROACHMENT STATIONS=     1977.8    3800.0  TYPE=      1  TARGET=     1822.200
   252.000      7.71    179.61       .00       .00    179.84       .23      1.36       .06 100000.00
    1992.8    1992.8        .0        .0     522.5        .0        .0     122.5      66.5 100000.00
       .55      3.81       .00       .00      .045      .000      .000      .000    171.90   1987.47
   .009370      550.      521.      640.         3         0         0       .00    400.57   2388.05


*SECNO 258.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29


3470 ENCROACHMENT STATIONS=     2158.1    3100.0  TYPE=      1  TARGET=      941.900
   258.000      7.78    181.78       .00       .00    181.84       .06      1.99       .02 100000.00
    1992.8    1992.8        .0        .0    1005.6        .0        .0     132.6      73.1 100000.00
       .63      1.98       .00       .00      .045      .000      .000      .000    174.00   2167.51
   .001787      575.      147.      150.         2         0         0       .00    594.05   2761.55
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 260.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     2868.1    3900.0  TYPE=      1  TARGET=     1031.900
   260.000      8.21    182.71       .00       .00    182.78       .07       .93       .00 100000.00
    1992.8    1992.8        .0        .0     913.0        .0        .0     142.5      79.2 100000.00
       .69      2.18       .00       .00      .045      .000      .000      .000    174.50   2875.97
   .002436      450.      771.      533.         2         0         0       .00    589.36   3493.90


*SECNO 262.000

3470 ENCROACHMENT STATIONS=     2915.7    3350.0  TYPE=      1  TARGET=      434.300
   262.000     10.12    184.72       .00       .00    184.82       .11      2.03       .01 100000.00
    1992.8    1992.8        .0        .0     764.5        .0        .0     161.7      89.4 100000.00
       .79      2.61       .00       .00      .045      .000      .000      .000    174.60   2924.84
   .001725     1000.      595.      654.         5         0         0       .00    300.62   3225.46


*SECNO 264.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     2727.0    3006.3  TYPE=      1  TARGET=      279.300
   264.000     11.52    185.12       .00       .00    185.46       .34       .57       .07 100000.00
    1992.8    1992.8        .0        .0     428.6        .0        .0     164.5      90.5 100000.00
       .80      4.65       .00       .00      .045      .000      .000      .000    173.60   2735.99
   .005507      200.      188.      119.         4         0         0       .00    168.14   2904.13


*SECNO 265.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 30.0 100.0 TYPE= 1 TARGET= -30.000

NORTHBOUND HIGHWAY 101

265.000	6.78	187.28	187.28	.00	189.26	1.98	1.57	.49	182.00
1995.0	1027.8	851.6	115.5	137.2	56.5	21.0	166.0	91.0	182.00
.81	7.49	15.07	5.51	.045	.035	.050	.000	180.50	30.77
.012025	200.	200.	200.	20	14	0	.00	55.20	90.94

TW Sec 265 to 264

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2.19	2.19	.02	2.19	2.19	.02	5	185.124	187.280	264.000	265.000

TW Sec 264 to 262

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	184.718	185.124	262.000	264.000

TW Sec 262 to 260

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	182.706	184.718	260.000	262.000

TW Sec 260 to 258

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	181.782	182.706	258.000	260.000

TW Sec 258 to 252

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	179.609	181.782	252.000	258.000

TW Sec 252 to 246

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	178.381	179.609	246.000	252.000

TW Sec 246 to 226

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	178.244	178.381	226.000	246.000

TW Sec 226 to 224

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2.19	2.19	.02	5	177.428	178.244	224.000	226.000

TW Sec 224 to 222

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.03	.03	.14	2.22	2.22	.02	5	175.716	177.428	222.000	224.000

TW Sec 222 to 220

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.19	.19	.12	2.41	2.41	.01	5	174.770	175.716	220.000	222.000

THIS RUN EXECUTED 10JAN94 10:40:35

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	220.000	.00	.00	.00	159.30	2943.59	174.77	.00	174.83	14.99	.00	1527.92	760.22
	222.000	806.70	.00	.00	160.40	2943.78	175.72	.00	175.75	8.04	.00	2030.08	1038.07
*	224.000	743.00	.00	.00	164.60	2943.81	177.43	.00	177.51	32.22	.00	1295.34	518.60
*	226.000	841.10	.00	.00	165.70	1992.81	178.24	.00	178.26	5.26	.00	1898.00	869.28
*	246.000	389.50	.00	.00	169.30	1992.81	178.38	.00	178.41	11.23	.00	1350.50	594.72
*	252.000	520.80	.00	.00	171.90	1992.81	179.61	.00	179.84	93.70	.00	522.53	205.88
*	258.000	147.30	.00	.00	174.00	1992.81	181.78	.00	181.84	17.87	.00	1005.62	471.46
	260.000	771.20	.00	.00	174.50	1992.81	182.71	.00	182.78	24.36	.00	913.03	403.78
	262.000	595.20	.00	.00	174.60	1992.81	184.72	.00	184.82	17.25	.00	764.50	479.81
*	264.000	187.80	.00	.00	173.60	1992.81	185.12	.00	185.46	55.07	.00	428.64	268.55
*	265.000	200.00	.00	.00	180.50	1995.00	187.28	187.28	189.26	120.25	15.07	214.69	181.93

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	220.000	2943.59	174.77	.00	.00	.00	722.93	.00
	222.000	2943.78	175.72	.00	.95	.00	898.81	806.70
*	224.000	2943.81	177.43	.00	1.71	.00	828.14	743.00
*	226.000	1992.81	178.24	.00	.82	.00	1180.10	841.10
*	246.000	1992.81	178.38	.00	.14	.00	876.36	389.50
*	252.000	1992.81	179.61	.00	1.23	.00	400.57	520.80
*	258.000	1992.81	181.78	.00	2.17	.00	594.05	147.30
	260.000	1992.81	182.71	.00	.92	.00	589.36	771.20
	262.000	1992.81	184.72	.00	2.01	.00	300.62	595.20
*	264.000	1992.81	185.12	.00	.41	.00	168.14	187.80
*	265.000	1995.00	187.28	.00	2.16	.00	55.20	200.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    224.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    226.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    252.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    258.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    264.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    265.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    265.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    265.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

Normal program termination

HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: case1a.hC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
   RUN DATE    19JUL96    TIME   15:30:44  *
*******************************************
```

```
*************************************
 *  U.S. ARMY CORPS OF ENGINEERS      *
 *  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
 *  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
*************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                       :::
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:::::::::::::::::::::::::::::::::::::::::::::
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============================
H A E S T A D   M E T H O D S
============================
```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS RUN EXECUTED 19JUL96 15:30:45

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************



SPLIT FLOW BEING PERFORMED


SF       MODEL SPILL FROM PERCHED CHANNEL WITH LEVEES INTACT


JC       LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.             40.      -1.      87.

TN  Sec 278 to 276 Left
NS2.     276.     278.     -1.      .045     .00331
NG0.     200.7       1400.200.0

TN  Sec 276 to 274 Left
NS2.     274.     276.     -1.      .045     .00206
NG0.     199.8        520.200.7

TN  Sec 274 to 272 Left
NS2.     272.     274.     -1.      .045     .00255
NG0.     197.1        810.199.8

TN  Sec 272 to 270 Left
NS2.     270.     272.     -1.      .045     .00385
NG0.     196.6        770.197.1

TW  Sec 270 to 268 Left
WS2.     268.     270.     -1.      2.6
WC0.     196.7        850.196.6

TN  Sec 270 to 268 Right
NS2.     268.     270.     -1.      .045     .00710
NG0.     195.3    700.     196.4

TW  Sec 268 to 266 Left
WS2.     266.     268.     -1.      2.6
WC0.     197.1    285.     196.7

TN  Sec 268 to 266 Right
NS2.     266.     268.     -1.      .045     .00428
NG0.     195.1    330.     195.3
```

```
TW  Sec 266 to 264 Left
WS2.    264.    266.    -1.     2.6
WC0.    196.3   275.    197.1

TN  Sec 266 to 264 Right
NS2.    264.    266.    -1.     .045    .003
NG0.    194.9   315.    195.1

TW  Sec 264 to 262 Left
WS2.    262.    264.    -1.     2.6
WC0.    193.3   254.    196.3

TN  Sec 264 to 262 Right
NS2.    262.    264.    -1.     .045    .00323
NG0.    194.5   120.    194.9

TW  Sec 262 to 260 Left
WS2.    260.    262.    -1.     2.6
WC0.    193.4   600.    193.3

TN  Sec 262 to 260 Right
NS2.    260.    262.    -1.     .045    .00361
NG0.    194.8   560.    194.5

TW  Sec 260 to 258 Left
WS2.    258.    260.    244.    2.6
WC0.    193.1   940.    193.4

TW  Sec 260 to 258 Right
WS2.    258.    260.    -1.     2.6
WC0.    193.7   860.    194.8

TW  Sec 258 to 256 Left
WS2.    256.    258.    244.    2.6
WC0.    192.6   164.    193.1

TW  Sec 258 to 256 Right
WS2.    256.    258.    -1.     2.6
WC0.    193.0   150.    193.7

TW  Sec 256 to 254 Left
WS2.    254.    256.    244.    2.6
WC0.    191.1   106.    192.6

TW  Sec 256 to 254 Right
WS2.    254.    256.    -1.     2.6
WC0.    193.0   130.    193.0

TW  Sec 254 to 252 Left
WS2.    252.    254.    244.    2.6
WC0.    191.5   470.    191.1
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TW  Sec 254 to 252 Right
WS2.    252.    254.    -1.     2.6
WC0.    191.1   470.    193.0

TW  Sec 252 to 250 Left
WS2.    250.    252.    244.    2.6
WC0.    190.7       670.191.5

TW  Sec 252 to 250 Right
WS2.    250.    252.    -1.     2.6
WC0.    189.2   720.    191.1

TW  Sec 250 to 248 Left
WS2.    248.    250.    244.    2.6
WC0.    189.7   350.    190.7

TW  Sec 250 to 248 Right
WS2.    248.    250.    -1.     2.6
WC0.    188.4   280.    189.2

TW  Sec 248 to 246 Left
WS2.    246.    248.    244.    0.0
WC0.    187.5   450.    189.7

TN  Sec 248 to 246 Right
NS2.    246.    248.    -1.     .045    .00370
NG0.    187.2   385.    188.4

TW  Sec 246 to 244 Left
WS2.    244.    246.    244.    0.0
WC0.    186.4   355.    187.5

TN  Sec 246 to 244 Right
NS2.    244.    246.    -1.     .045    .00475
NG0.    186.1   400.    187.2

TW  Sec 244 to 242 Left
WS2.    242.    244.    242.    0.0
WC0.    185.0   200.    186.4

TW  Sec 244 to 242 Right
WS2.    242.    244.    -1.     2.6
WC0.    186.9   350.    186.1

TW  Sec 242 to 240 Right
WS2.    240.    242.    -1.     2.6
WC0.    187.5   72.2    186.9

TW  Sec 228 to 226 Left
WS2.    226.    228.    -1.     2.6
WC0.    187.4   71.7    190.4
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TW  Sec 228 to 226 Right
WS2.    226.    228.    -1.     2.6
WC0.    186.3   71.7    191.0

TW  Sec 226 to 224 Left
WS2.    224.    226.    -1.     2.6
WC0.    186.4   950.    187.4

TW  Sec 226 to 224 Right
WS2.    224.    226.    -1.     2.6
WC0.    183.7       1300.186.3

TW  Sec 224 to 222 Left
WS2.    222.    224.    -1.     2.6
WC0.    183.2        900.186.4

TW  Sec 224 to 222 Right
WS2.    222.    224.    -1.     2.6
WC0.    181.8   630.    183.7

TW  Sec 222 to 220 Left
WS2.    220.    222.    -1.     2.6
WC0.    180.9   790.    183.2

TW  Sec 222 to 220 Right
WS2.    220.    222.    -1.     2.6
WC0.    180.3   807.    181.8

TW  Sec 220 to 218 Left
WS2.    218.    220.    -1.     2.6
WC0.    178.6   800.    180.9

TW  Sec 220 to 218 Right
WS2.    218.    220.    -1.     2.6
WC0.    177.4   720.    180.3

TW  Sec 218 to 216 Left
WS2.    216.    218.    -1.     2.6
WC0.    175.6   700.    178.6

TW  Sec 218 to 216 Right
WS2.    216.    218.    -1.     2.6
WC0.    177.2   770.    177.4

TW  Sec 216 to 214 Left
WS2.    214.    216.    -1.     2.6
WC0.    176.1   660.    175.6

TW  Sec 216 to 214 Right
WS2.    214.    216.    -1.     2.6
WC0.    173.5   790.    177.2
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TW  Sec 214 to 212 Left
WS2.    212.    214.    -1.     2.6
WC0.    177.8   190.    176.1

TW  Sec 214 to 212 Right
WS2.    212.    214.    -1.     2.6
WC0.    173.9   190.    173.5

TW  Sec 212 to 210 Left
WS2.    210.    212.    -1.     2.6
WC0.    178.2   94.5    177.8

TW  Sec 212 to 210 Right
WS2.    210.    212.    -1.     2.6
WC0.    176.6   65.3    173.9

TW  Sec 208 to 206 Left
WS2.    206.    208.    -1.     2.6
WC0.    177.5   50.     178.1

TW  Sec 208 to 206 Right
WS2.    206.    208.    -1.     2.6
WC0.    175.5   50.     173.0

TW  Sec 206 to 204 Left
WS2.    204.    206.    -1.     2.6
WC0.    174.6   460.    177.5

TW  Sec 206 to 204 Right
WS2.    204.    206.    -1.     2.6
WC0.    174.1   480.    175.5

TW  Sec 204 to 202 Left
WS2.    202.    204.    -1.     2.6
WC0.    173.1   469.5   174.6

TW  Sec 204 to 202 Right
WS2.    202.    204.    -1.     2.6
WC0.    173.3   540.8   174.1

TW  Sec 202 to 200 Left
WS2.    200.    202.    -1.     2.6
WC0.    171.0   510.2   173.1

TW  Sec 202 to 200 Right
WS2.    200.    202.    -1.     2.6
WC0.    172.0   545.2   173.3
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Run Date:  19JUL96    Run Time: 15:30:45    HMVersion: 6.52    Data File:   case1a.hC2                    Page    6

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (djs)  April 1996
T3      LOWER UVAS - CASE 1     MAIN CHANNEL W/ LEVEES INTACT

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        2.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.              -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Normal Depth 1500 Feet D/S of Study Limit (SPRR)


NC   .05      .07       .065      .1        .3
QT   1.       14600.
X1   200.0    23.0      4948.8    5045.8
X3                                4861.0                5045.8
GR   158.0    3750.0    159.2     3898.9    165.7     3917.1    165.7     3929.1    160.1     3949.3
GR   168.7    4850.4    171.0     4861.0    170.6     4948.8    161.0     4972.3    150.2     4990.5
GR   150.2    4990.5    150.2     5000.0    150.2     5014.0    172.0     5045.8    171.0     5088.4
GR   169.4    5094.4    168.3     5315.9    167.6     5541.2    166.0     5548.1    164.9     6037.9
GR   159.0    6978.6    159.9     6990.7    159.4     7051.0


X1   202.0    19.0      4958.4    5048.5    510.2     545.2     521.9
X3                                4924.1                5048.5
GR   157.3    3450.2    158.8     3703.8    165.7     3722.0    165.6     3734.5    160.3     3755.0
GR   170.4    4845.9    171.2     4918.2    173.1     4924.1    172.0     4958.4    150.5     4988.3
GR   150.5    5000.0    150.5     5014.2    173.3     5048.5    171.7     5146.8    168.6     5687.6
GR   166.4    6120.4    159.9     7113.1    161.7     7140.5    161.8     7197.2


NC   .045
X1   204.0    17.0      4937.6    5030.1    469.5     540.8     516.3
X3                                4937.6                5030.1
GR   158.4    3257.4    159.6     3438.6    165.4     3453.2    165.4     3471.1    161.2     3490.2
GR   171.3    4884.9    174.4     4905.8    174.6     4937.6    163.2     4967.4    152.5     4988.1
GR   152.5    5000.0    152.5     5010.9    174.1     5030.1    173.9     5065.6    171.7     5077.5
GR   170.4    5511.5    164.9     6535.9

  Expanded Flow D/S of SPRR Bridge
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X1   206.0    18.0       4927.5     5064.5     679.7      320.       480.7
X3                                  4901.1                5126.4
 R   160.7    3087.4     161.1      3116.1     166.2      3133.2     166.0      3149.4     162.5      3164.4
 R   171.8    4885.4     177.5      4901.1     175.9      4927.5     161.8      4953.3     153.7      4983.2
GR   153.7    5000.0     153.7      5031.8     167.0      5064.5     175.2      5101.8     175.5      5126.4
GR   172.8    5180.2     168.9      6080.1     162.6      7151.8

  D/S SPRR Bridge

NC                                  .3         .5
X1   208.0    13.0       4962.9     5038.1     50.        50.        50.
X3   10.                            4962.9                5038.1
GR   165.7    4068.7     172.2      4879.7     178.1      4911.4     175.7      4962.9     158.3      4963.0
GR   158.3    5000.0     158.3      5038.0     171.0      5038.1     173.0      5151.9     170.2      5667.3
GR   168.9    6072.1     169.1      6444.9     163.6      7128.3

NC   .02      .02        .016

  SPRR Bridge

SB   0.9      1.56       2.6                   75.        6.         1173.      0.

        SPRR

X1   210.0    14.0       4962.9     5038.1     45.4       45.4       45.4
X2                       1.         175.3      177.8                           1.33
X3   10.                            4962.9                5038.1
BT   -14.0    4142.1     175.5      165.0      4856.7     178.4      172.4      4914.7     178.4      178.2
BT            4961.5     178.4      178.0      4962.9     178.4      177.9      4963.0     180.3      175.3
BT            5000.0     180.3      175.3      5038.0     180.3      175.3      5038.1     178.3      176.5
BT            5055.1     178.2      157.8      5055.2     178.2      176.6      5376.9     177.1      173.3
BT            5923.4     174.8      170.6      6100.7     173.9      170.3
GR   165.0    4142.1     172.4      4856.7     178.2      4914.7     178.0      4961.5     177.9      4962.9
GR   158.3    4963.      158.3      5000.0     158.3      5038.0     175.3      5038.1     176.5      5055.1
GR   176.6    5055.2     173.3      5376.9     170.6      5923.4     170.3      6100.7

  U/S SPRR Bridge

NC   .045     .045       .065
X1   212.0    27.0       4975.5     5051.8     94.5       65.3       65.3
X3                                  4916.4                5051.8
 R   166.2    3623.2     172.2      4896.8     177.8      4916.4     177.1      4950.1     174.4      4975.5
 R   156.4    4986.7     156.4      5000.0     156.4      5012.9     173.9      5051.8     173.6      5069.2
GR   171.3    5079.6     169.6      5807.2     168.5      6001.4     166.9      7709.7     166.4      8569.6
GR   167.1    8588.8     167.5      8628.9     167.1      8648.2     170.3      8664.8     168.3      8748.1
GR   164.0    8769.9     165.4      8796.4     164.       9293.      159.7      9298.      159.7      9308.
GR   164.7    9313.4     180.0      9433.
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NC                                  .1          .3

 1  214.0    27.0     4979.1    5051.4    170.8     700.      191.8
 3                               4928.              5051.4
GR  171.0    3387.3   170.7     3420.4    165.9     3449.1    169.7     4461.4    170.8     4736.3
GR  172.4    4744.8   176.1     4928.0    175.1     4979.1    157.6     4986.9    157.6     5000.0
GR  157.6    5016.6   173.5     5051.4    171.3     5204.6    173.6     6737.9    169.7     7956.9
GR  169.3    7981.8   168.2     8000.8    173.1     8033.5    172.0     8069.2    167.5     8091.8
GR  166.7    8833.0   164.4     9176.9    159.4     9181.9    159.4     9191.9    164.4     9201.9
GR  165.     9210.    180.      9300.

NH  4.       .045     4927.8    .065      5026.0    .05       7184.5    .045      9183.
X1  216.0    30.0     4927.8    5026.0    377.4     490.      647.6
X3                               4927.8              5026.0
GR  173.5    3096.6   172.5     3131.8    167.1     3148.7    169.0     3648.8    172.3     4651.7
GR  173.9    4663.3   175.6     4927.8    157.7     4989.0    157.7     5000.0    157.7     5009.3
GR  177.2    5026.0   176.1     5066.4    174.8     5210.7    173.3     6136.0    174.1     7146.0
GR  173.6    7165.9   175.0     7184.5    174.6     7216.0    173.1     7226.2    173.1     7239.9
GR  175.4    7253.5   174.8     7289.2    170.8     7307.6    172.8     7320.4    168.4     7900.4
GR  166.1    8897.1   164.0     8912.1    165.9     8956.8    171.0     9033.0    180.      9183.

NH  4.       .05      4945.7    .065      5057.2    .05       7079.8    .045      9325.7
X1  218.0    29.0     4945.7    5057.2    538.6     793.3     703.9
X3                               4918.7              5057.2
GR  174.1    3087.6   172.7     3113.6    169.9     3122.2    169.1     3188.5    172.7     4406.6
GR  175.2    4809.1   176.2     4910.9    178.6     4918.7    178.0     4945.7    158.2     4991.7
GR  158.2    5000.0   158.2     5010.1    177.4     5057.2    176.3     5200.9    175.7     6505.5
GR  178.3    6943.2   178.3     6977.0    177.0     6986.2    177.0     6998.7    178.7     7013.2
GR  177.6    7063.5   174.3     7068.4    176.9     7079.8    169.9     8384.5    169.4     9192.3
GR  167.7    9197.5   169.9     9207.7    170.2     9250.9    191.9     9325.7

NH  4.       .05      4939.8    .065      5089.1    .12       6776.6    .045      9648.2
X1  220.0    28.0     4939.8    5089.1    817.4     792.2     832.9
X3                               4859.5              5089.1
GR  174.3    3242.6   174.3     3282.7    169.3     3310.5    170.7     3324.3    179.6     4815.6
GR  180.9    4859.5   179.9     4939.8    159.3     4987.3    159.3     5000.0    159.3     5020.1
GR  180.3    5089.1   177.8     5755.7    180.1     6769.5    181.5     6776.6    181.5     6801.1
GR  179.5    6817.7   179.4     6827.1    182.0     6849.6    181.6     6884.0    178.0     6905.4
GR  179.8    6916.3   172.6     8522.3    174.3     9384.1    170.3     9396.8    170.3     9400.3
GR  174.2    9406.0   186.4     9458.5    195.4     9648.2

NH  4.       .05      4955.0    .065      5072.1    .12       6451.3    .045      9633.8
X1  222.0    28.0     4955.0    5072.1    857.3     703.5     806.7
X3                               4909.6              5072.1
GR  174.6    3268.0   174.6     3297.7    171.2     3312.3    176.8     4408.9    181.0     4902.0
GR  183.2    4909.6   182.9     4955.0    160.4     4986.9    160.4     5000.0    160.4     5025.7
GR  181.8    5072.1   180.9     5247.9    182.4     6451.3    182.4     6475.6    183.8     6489.5
GR  183.7    6528.2   181.9     6567.0    181.4     6795.3    180.0     6799.5    175.2     8299.1
GR  176.0    8967.4   174.9     8975.3    176.6     8982.3    183.6     9492.3    199.1     9524.3
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GR   198.7    9569.8     201.3      9587.2     201.5      9633.8

'H   5.       .05        4251.3     .045       4949.0     .065       5064.6     .12        6351.3     .045
.H   9467.
X1   224.0    28.0       4949.0     5064.6     1117.2     416.9         900.0
X3                                  4919.1                5064.6
GR   178.5    3010.0     178.5      3034.0     174.3      3052.8     178.9      4251.3     182.0      4815.1
GR   183.7    4907.2     186.4      4919.1     185.4      4949.0     164.6      4983.1     164.6      5000.0
GR   164.6    5017.8     183.7      5064.6     183.3      5241.1     183.4      6242.7     183.4      6310.1
GR   181.7    6325.2     184.7      6351.3     183.3      6386.9     181.2      6404.2     176.3      7944.5
GR   177.0    8800.6     175.9      8808.5     177.6      8815.5     184.6      9325.5     199.1      9357.5
GR   198.7    9403.0     201.3      9420.4     201.5      9467.0

  D/S Highway 101

NC   .045     .05        .065
QT   1.       14400.
X1   226.0    20.0       4945.5     5060.4     887.0      400.          1300.   .87
X3                                  4559.28               4691.68
GR   178.4    2224.1     178.7      2251.1     175.2      2267.7     178.0      3416.3     179.1      3518.1
GR   175.2    3601.8     177.5      3609.1     182.3      4401.4     184.9      4591.6     186.8      4722.8
GR   187.4    4908.2     185.3      4945.5     165.7      4983.6     165.7      5000.0     165.7      5031.5
GR   186.3    5060.4     177.5      5116.9     176.7      5233.8     185.6      5288.4     184.6      5685.8

  D/S Face Northbound Highway 101 Bridge

NC                                  .3         .5
X1   228.0    9.0        4946.5     5080.5     71.7       71.7       71.7       .87
X3   10.                            4882.27               4992.27
GR   186.2    4405.9     188.9      4893.6     190.4      4946.5     167.0      4955.2     167.0      5000.0
GR   167.0    5062.0     191.0      5080.5     186.7      5358.9     184.9      5717.5

  U/S Face Northbound Highway 101 Bridge

NC   .02      .02        .016
SB   1.25     1.56       2.6                   110.       7.2        2200.      0.

        NORTHBOUND HIGHWAY 101

X1   230.0    13.0       4942.7     5078.2     58.        58.        58.        .87
X2                       1.         188.5      191.5                           2.0        .87
X3   10.                            4886.09               4996.09
BT   -13.0    4435.3     185.8      184.1      4492.3     186.4      184.6      4885.5     190.7      190.2
BT            4942.7     191.5      191.3      4942.8     191.5      188.5      4954.0     191.7      188.5
BT            5000.0     192.4      188.5      5063.8     191.8      188.5      5078.1     191.6      188.5
BT            5078.2     191.6      190.3      5314.8     189.2      187.8      5762.1     185.2      185.0
BT            5764.5     185.2      184.2
GR   184.1    4435.3     184.6      4492.3     190.2      4885.5     191.3      4942.7     191.2      4942.8
GR   167.6    4954.0     167.6      5000.0     167.6      5063.8     190.2      5078.1     190.3      5078.2
GR   187.8    5314.8     185.0      5762.1     184.2      5764.5
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D/S Face Southbound Highway 101 Bridge

```
X1   232.     17.        4957.7     5073.1     77.        77.        77.
X3   10.                            4957.7                5073.1
GR   191.0    4957.7     168.4      4957.71    168.4      4983.7     188.5      4983.71    188.5      4985.5
GR   168.4    4985.6     168.4      5000.      168.4      5014.5     188.5      5014.51    188.5      5016.3
GR   168.4    5016.31    168.4      5045.3     188.5      5045.31    188.5      5047.1     168.4      5047.11
GR   168.4    5073.1     191.0      5073.11
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U/S Face Southbound Highway 101 Bridge

```
SB   1.25     1.56       2.6                   110.       7.2        2200.      0.

        SOUTHBOUND HIGHWAY 101
X1   240.0    12.0       4931.6     5079.6     47.7       47.7       47.7       .87
X2                       1.         188.5      190.5                            2.0        .87
X3   10.                            4886.09               4996.09
BT   -12.0    4493.2     184.7      183.7      4515.7     185.0      184.9      4856.7     189.7      186.9
BT            4931.6     190.5      183.8      4931.7     190.5      188.5      4965.2     190.7      188.5
BT            5000.0     191.0      188.5      5031.8     190.8      188.5      5079.5     190.4      188.5
BT            5079.6     190.4      187.5      5294.9     188.9      187.6      5762.4     186.1      185.5
GR   183.7    4493.2     184.9      4515.7     186.9      4856.7     183.8      4931.6     183.7      4931.7
GR   168.5    4965.2     168.5      5000.0     168.5      5031.8     187.4      5079.5     187.5      5079.6
GR   187.6    5294.9     185.5      5762.4
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U/S Highway 101

```
NC   .045     .045       .065
X1   242.0    19.0       4951.8     5060.3     72.2       72.2       72.2       .87
X3                                  4814.                 5068.
GR   185.5    4542.3     185.0      4951.8     168.9      4980.9     168.9      5000.0     168.9      5022.9
GR   186.9    5060.3     186.1      5272.0     184.3      5319.5     183.4      5558.0     180.6      6660.6
GR   178.9    7856.7     178.7      8458.8     176.6      8465.2     176.5      8469.8     179.8      8477.2
GR   185.3    8534.1     200.0      8589.0     200.1      8616.4     198.6      8720.0

NC                                  .1         .3
X1   244.0    22.0       4792.9     5042.2     137.0      410.       258.2
X3                                  4792.9                5042.2
GR   186.3    4442.5     186.5      4473.1     185.2      4483.0     186.3      4495.2     186.3      4527.3
GR   185.6    4597.7     186.4      4792.9     168.9      4989.2     168.9      5000.0     168.9      5014.8
GR   186.1    5042.2     185.3      5231.4     182.7      6563.8     181.0      7390.      179.6      7610.
GR   182.9    7626.      185.7      7818.4     193.0      7844.      194.6      7907.      194.9      7954.0
GR   196.1    7974.9     195.9      8034.8
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X1   246.0    34.0       4943.3     5036.5     250.       400.       389.5
X3                                  4943.3                5036.5
GR   179.3    2099.9     179.3      2122.2     175.3      2135.8     179.1      3207.4     183.7      4161.6
GR   184.8    4209.9     186.7      4218.2     186.8      4246.9     185.6      4256.8     186.0      4273.7
GR   186.0    4300.0     184.4      4313.0     185.6      4338.4     185.0      4398.7     185.3      4489.2
GR   186.7    4504.6     186.6      4529.6     185.5      4536.6     186.8      4831.9     187.5      4943.3
GR   169.3    4987.4     169.3      5000.0     169.3      5018.0     187.2      5036.5     186.3      5207.1
GR   183.8    6460.      183.1      6700.      182.5      7450.      180.8      7460.      184.1      7476.
GR   186.0    7668.      195.2      7694.      198.3      7757.      197.9      7800.

X1   248.0    27.0       4949.1     5080.3     485.0      450.       523.1
X3                                  4949.1                5420.
GR   180.4    2240.4     180.4      2265.6     175.3      2278.4     180.7      3315.8     183.7      4140.6
GR   185.4    4211.4     186.9      4232.3     186.7      4263.6     190.6      4300.5     189.1      4372.1
GR   185.1    4399.6     186.8      4429.9     186.0      4469.3     187.8      4890.1     189.7      4949.1
GR   169.7    4983.5     169.7      5000.0     169.7      5017.7     187.4      5080.3     188.4      5420.
GR   184.6    7210.      184.0      7355.      182.0      7363.      185.4      7376.      186.3      7496.
GR   197.5    7549.      202.1      7587.

NC                                  .06
X1   250.0    30.0       4908.2     5045.1     200.       132.1      310.2
X3                                  4908.2                5082.1
GR   180.9    1870.5     180.9      1895.1     175.4      1914.2     182.4      3284.1     183.7      3696.8
GR   185.7    3731.9     185.7      3759.2     185.3      3768.5     187.8      3791.6     187.6      3824.4
GR   191.4    3862.8     190.8      3923.4     187.2      3974.4     189.9      4837.2     190.7      4908.2
GR   185.6    4930.2     181.1      4966.7     169.7      4990.9     169.7      5000.0     169.7      5018.7
GR   189.0    5045.1     189.2      5082.1     188.4      5173.1     184.6      6960.7     184.0      7105.
GR   182.0    7113.      185.4      7126.      186.3      7246.      197.5      7300.      202.1      7337.

X1   252.0    30.0       4963.9     5056.5     145.1      640.           670.0
X3                                  4941.6                5056.5
GR   181.8    1953.8     181.8      1977.8     177.0      1996.2     181.1      2612.0     184.0      3727.5
GR   186.3    3771.5     186.3      3796.7     185.9      3807.2     190.3      3834.3     189.6      3872.7
GR   189.6    3886.1     191.0      3905.3     190.2      3986.8     188.0      4016.5     188.0      4048.7
GR   186.9    4060.0     190.8      4927.5     191.5      4941.6     191.0      4963.9     171.9      4992.8
GR   171.9    5000.0     171.9      5011.5     191.1      5056.5     189.8      5143.9     186.9      6480.
GR   189.2    6640.      194.4      6810.      199.1      7110.      201.2      7200.      203.9      7300.

X1   254.0    35.0       4927.3     5042.7     485.2      433.0      488.2
X3                                  4713.3                5042.7
GR   183.2    1987.3     183.2      2015.8     177.4      2034.1     184.6      3112.4     186.8      3516.3
GR   188.0    3622.3     189.4      3631.9     189.4      3651.7     188.2      3666.6     192.3      3692.0
GR   192.3    3733.4     190.4      3759.4     193.2      3793.0     192.8      3839.7     189.5      3867.8
GR   189.5    3916.7     186.8      3928.8     188.1      4059.3     190.6      4071.9     191.9      4509.7
GR   192.6    4713.3     190.9      4722.8     191.1      4927.3     172.0      4981.4     172.0      5000.0
GR   172.0    5020.3     193.0      5042.7     191.2      5098.7     190.3      5400.      190.0      5710.
GR   189.7    6100.      188.4      6450.      195.7      6600.      203.3      6810.      206.6      7260.
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NC                      .05
X1   256.0   33.0      4935.4   5032.6   106.4    140.     130.4
X3                     4522.5            5032.6
GR   183.3   2049.5    183.3    2073.0   178.1    2098.1   185.9    3311.1   187.3    3567.1
GR   189.8   3643.4    189.8    3667.5   189.1    3681.9   192.4    3710.6   192.4    3750.5
GR   191.2   3779.1    193.1    3810.7   192.6    3866.2   189.1    3887.5   189.3    3930.8
GR   188.2   3936.9    188.1    4072.3   190.9    4081.4   192.6    4522.5   191.4    4719.9
GR   192.1   4935.4    174.4    4964.8   173.4    4986.9   171.3    5000.0   171.2    5014.2
GR   193.0   5032.6    191.2    5094.7   190.9    5430.    190.8    5820.    189.3    6270.
GR   193.7   6400.     185.9    6610.    208.4    7100.

X1   258.0   26.0      4940.7   5047.3   163.5    150.0    147.3
X3                     4940.7            5047.3
GR   183.3   2126.7    183.1    2158.1   178.4    2180.7   184.6    3244.4   186.6    3583.9
GR   189.0   3639.7    190.5    3696.2   193.0    3765.5   191.5    3795.2   194.1    3829.5
GR   194.6   3887.2    189.9    3905.4   189.1    4146.8   192.3    4910.9   193.1    4940.7
GR   174.0   4981.0    174.0    5000.0   174.0    5019.6   193.7    5047.3   191.8    5149.1
GR   192.0   5540.     190.5    6050.    190.7    6185.    199.3    6410.    194.8    6890.
GR   205.1   7350.

X1   260.0   30.0      4943.9   5063.9   550.     532.8    771.2
X3                     4943.9            5063.9
GR   184.8   2858.8    184.4    2868.1   182.6    2876.3   184.6    2883.9   184.6    2898.8
GR   179.6   2915.8    184.6    3847.6   186.2    3937.8   189.3    4016.1   189.2    4085.8
GR   185.8   4101.9    185.8    4112.4   188.9    4130.7   191.3    4198.1   194.3    4244.7
GR   191.7   4272.5    197.1    4377.7   189.1    4403.4   193.2    4926.6   193.4    4943.9
GR   174.5   4979.2    174.5    5000.0   174.5    5018.7   194.8    5063.9   193.8    5255.6
GR   193.2   5975.     192.9    6115.    192.1    6385.    195.8    6900.    212.5    7600.

X1   262.0   34.0      4943.0   5075.7   450.     654.0    595.2
X3                     4943.0              5110.
GR   186.0   2881.8    186.2    2915.7   181.5    2939.7   182.5    3202.9   188.4    3262.9
GR   188.5   3329.4    189.8    3416.7   187.7    3527.2   204.5    3550.5   205.0    3660.1
GR   207.3   3762.1    204.1    3803.5   205.8    3846.7   205.4    3922.7   190.6    3957.8
GR   190.6   3970.1    195.9    4003.7   195.9    4044.5   185.8    4071.5   188.3    4107.5
GR   186.2   4150.8    192.4    4901.3   192.4    4926.0   193.3    4943.0   174.7    4981.6
GR   174.6   5000.0    174.6    5036.4   193.6    5075.7   193.9    5470.    194.5    5630.
GR   193.9   5930.     202.6    6500.    202.6    7160.    215.0    8000.

X1   264.0   35.0      4904.2   5063.3   180.     118.6    187.8
X3                     4904.2            5063.3
GR   186.6   2690.0    187.0    2727.0   181.8    2752.8   183.0    2897.3   216.9    3006.3
GR   217.1   3105.6    215.7    3123.2   216.9    3153.3   214.4    3227.1   203.9    3270.1
GR   201.3   3295.2    188.6    3328.7   188.0    3426.4   195.4    3465.1   191.5    3542.8
GR   184.1   3574.1    183.6    3611.9   189.6    3666.0   190.3    3708.8   186.2    3739.5
GR   187.6   3770.7    188.5    4264.8   194.9    4882.2   196.3    4904.2   178.9    4942.8
GR   174.0   4978.8    173.6    5000.0   173.9    5026.2   194.9    5063.3   194.6    5130.6
GR   194.5   5550.     193.9    5850.    202.6    6410.    202.6    7080.    215.0    7920.
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NC                      .045
X1   266.0    36.0      4850.6    5059.2    260.      224.7     305.6
X3                      4833.9              5175.0
GR   182.7    2157.3    184.2     2199.1    217.3     2312.3    185.0     2384.2    187.6     2402.6
GR   187.6    2455.4    185.0     2469.6    184.7     2485.5    220.1     2552.9    218.1     2624.0
GR   212.4    2654.7    207.7     2740.1    186.1     2831.2    184.4     2947.2    185.4     3131.2
GR   188.8    3154.2    190.2     3215.4    191.3     3278.2    187.5     3310.5    186.5     3427.4
GR   191.1    4307.6    195.2     4790.6    195.2     4819.2    197.1     4833.9    196.5     4850.6
GR   189.4    4882.6    180.7     4966.3    175.2     4983.4    175.2     5000.0    175.2     5031.0
GR   193.5    5059.2    195.1     5175.0    194.1     5820.     196.9     6150.     202.6     6700.
GR   215.0    7500.

X1   268.0    25.0      4945.5    5085.8    260.      371.4     314.2
X3                      4937.8              5085.8
GR   189.7    2271.4    189.5     2310.6    185.3     2336.5    189.4     3051.1    191.7     3171.0
GR   188.4    3195.9    189.8     3212.3    189.8     3251.1    188.1     3268.5    193.1     4388.3
GR   195.3    4833.3    195.7     4930.1    196.7     4937.8    195.5     4945.5    175.7     4978.1
GR   175.7    5000.0    175.7     5026.9    187.1     5060.2    195.3     5085.8    194.7     5171.3
GR   194.5    5400.     194.8     5700.     196.6     5900.     202.5     6200.     215.0     7350.

X1   270.0    19.0      4892.5    5074.4    389.9     452.5       850.0
X3                      4892.5
GR   190.4    1627.5    190.4     1665.0    187.0     1692.6    188.4     1819.2    190.4     2396.0
GR   190.3    2437.7    188.9     2446.1    190.2     2467.8    191.1     3453.1    196.6     4562.4
GR   196.6    4892.5    190.9     4930.8    177.7     4964.8    177.7     5000.0    177.7     5049.6
GR   196.4    5074.4    195.1     5255.2    198.2     5356.4    215.0     6750.

X1   272.0    19.0      4953.2    5108.4    525.7     470.7       770.0
X3                      4953.2
GR   191.6    2493.1    191.7     2567.5    191.2     2575.0    194.4     3967.7    197.1     4953.2
GR   179.4    4987.7    179.4     5000.0    179.4     5015.7    188.2     5052.0    195.7     5069.2
GR   196.8    5091.5    198.8     5108.4    206.6     5655.4    216.6     6684.1    213.4     6745.1
GR   208.1    6806.6    209.0     7062.0    215.4     7079.4    214.7     7190.2

X1   274.0    22.0      4893.6    5052.1    350.      290.        810.0
X3                      4857.6
GR   192.1    1871.4    192.1     1917.4    191.4     1927.4    196.7     3547.0    199.8     4857.6
GR   198.8    4893.6    194.9     4916.8    191.9     4942.0    186.3     4970.8    179.6     4992.9
GR   179.6    5000.0    179.6     5016.5    209.2     5052.1    208.7     5104.3    220.6     6011.7
GR   221.2    6252.1    216.7     6319.7    214.3     6366.6    219.3     6376.5    218.3     6429.3
GR   219.9    6439.3    218.6     6479.8

X1   276.0    17.0      4898.4    5074.6    194.4     550.        520.0
X3                      4898.4
GR   191.1    1647.9    190.3     1729.0    190.9     1913.8    197.4     3476.9    200.5     4784.7
GR   200.7    4898.4    195.3     4942.1    187.4     4963.0    181.4     4985.1    181.4     5000.0
GR   181.4    5024.1    190.8     5053.9    215.5     5074.6    216.7     5164.1    230.8     6161.0
GR   233.7    6176.9    235.4     6276.6
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NC                      .035

 T   1.       14000.

        END CORPS OF ENGINEERS LEVEE

X1   278.0    18.0       4928.2     5054.5     638.9      882.2        1400.0
X3                                  4810.8
GR   191.0    2846.7     191.8      2900.0     190.8      2917.4     200.0      4810.8     199.9      4928.2
GR   188.1    4961.0     183.6      4989.2     183.6      5000.0     183.6      5008.0     187.8      5029.3
GR   201.2    5054.5     202.2      5131.8     201.3      5480.4     200.1      5485.6     204.2      5500.8
GR   216.9    6137.1     228.8      6858.2     229.9      6930.1

NC   .025     .025       .035       .1         .3
  Match SCVWD Deck

        TIE TO SCVWD 12/90 LOMR
        REMAINING X SECT ARE FROM SCVWD DECK

X1   9970.    16.0       120.       522.       275.       200.       230.
X3   10.
GR   201.     0.         201.       82.        209.       100.       209.       120.       202.       152.
GR   202.     167.       200.       177.       190.       190.       186.       194.       186.       277.
GR   202.     352.       203.       522.       201.5      742.       199.       802.       203.6      842.
GR   220.     1722.


X1   10325.   17.        123.       319.       330.       360.       355.
X3   10.
GR   202.     0.         202.       87.        210.5      105.       210.5      123.       200.8      155.
GR   200.     200.       196.       205.       190.       216.       188.       220.       186.       228.5
GR   183.2    250.       186.       262.5      183.2      281.       200.       309.       201.       312.
GR   202.     319.       204.       429.


X1   10595.   16.        93.        279.5      290.       250.       270.
X3   10.
GR   202.     0.         202.       56.        211.8      73.        211.8      93.        202.       125.
GR   200.8    170.       200.       179.       190.       192.       186.       199.       185.       215.
GR   187.8    258.       190.       262.5      200.       279.5      202.       283.       202.3      300.
GR   204.     651.


X1   11035.   16.        149.       311.5      480.       400.       440.
X3   10.
GR   208.     0.         203.       112.       213.       129.       213.       149.       202.       166.
GR   204.     200.       201.5      210.       200.       216.       188.       240.       187.5      258.
GR   188.     285.       190.       295.       200.       311.5      203.1      319.       204.       322.
GR   205.     720.
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X1   11220.   15.       120.     313.     185.     185.     185.
X3   10.
 R   210.     0.       210.     90.      213.2    100.     213.2    120.     206.     130.
 R   206.     183.2    206.     203.     200.     215.     190.     225.     188.     234.
GR   188.     281.     190.     288.     200.     313.     204.     323.     205.     363.

NC   .03      .03      .04      .4       .6

X1   11560.   25.      908.     1185.    240.         600.     520.
X3   10.
GR   204.     800.     204.1    880.     213.8    890.     213.8    908.     206.     920.
GR   209.     1015.    208.     1020.    206.     1026.    204.     1036.    202.     1040.
GR   200.     1045.    198.     1051.    196.     1058.    194.     1070.    192.     1080.
GR   190.     1100.    188.     1105.    186.5    1118.    190.     1140.    190.     1150.
GR   188.     1160.    188.     1172.    190.     1180.    200.     1144.    210.     1244.


        D/S FACE THOMAS ROAD BRIDGE
        MATCH 12/90 SCVWD LOMR

X1   11835.   6.       878.     1122.    140.     300.     275.
X3   10.
GR   215.2    878.     212.5    878.     183.4    965.     183.4    1035.    212.5    1122.
GR   215.2    1122.


SB   1.25     1.56     2.5      244.     70.      4.       5200.    3.       183.4    183.5
X1   11870.   6.       878.     1122.    35.      35.      35.
X2                     1.       216.5    219.5
X3   10.
GR   215.2    878.     212.5    878.     183.4    965.     183.4    1035.    212.5    1122.
GR   215.2    1122.
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Run Date:  19JUL96    Run Time: 15:30:45    HMVersion: 6.52    Data File:   case1a.hC2                    Page   16

   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 1

CCHV=    0.100 CEHV=    0.300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     13.05 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.25    172.45      0.00    170.00    172.58      0.13      0.00      0.00    170.60
    4071.4     141.9    3929.5       0.0     144.7    1346.6       0.0       0.0       0.0 100000.00
      0.00      0.98      2.92      0.00     0.050     0.065     0.000     0.000    150.20   4861.00
  0.000571        0.        0.        0.         0         0         4      0.00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     10.97 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.27    172.77      0.00      0.00    173.03      0.25      0.41      0.04    172.00
    5214.5       4.8    5209.7       0.0       9.3    1294.6       0.0      16.7       1.8 100000.00
      0.04      0.51      4.02      0.00     0.050     0.065     0.000     0.000    150.50   4934.27
  0.001059      510.      522.      545.         2         0         0      0.00    113.44   5047.71

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.50 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     20.90    173.40      0.00      0.00    173.73      0.33      0.68      0.02    174.60
    5214.5       0.0    5214.5       0.0       0.0    1128.3       0.0      31.1       3.0 100000.00
      0.07      0.00      4.62      0.00     0.000     0.065     0.000     0.000    152.50   4940.74
  0.001671      470.      516.      541.         2         0         0      0.00     88.73   5029.48

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.36 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     20.26    173.96      0.00      0.00    174.06      0.10      0.31      0.02    175.90
    5214.5       0.0    5117.9      96.6       0.0    2049.8     110.2      49.1       4.3    167.00
      0.12      0.00      2.50      0.88     0.000     0.065     0.070     0.000    153.70   4931.05
  0.000334      680.      481.      320.         2         0         0      0.00    165.11   5096.16


CCHV=    0.300 CEHV=    0.500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.28 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.46


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     15.58    173.88      0.00      0.00    174.20      0.31      0.03      0.11    175.70
    5239.7       0.0    5239.7       0.0       0.0    1170.5       0.0      51.0       4.4 100000.00
      0.12      0.00      4.48      0.00     0.000     0.065     0.000     0.000    158.30   4962.91
  0.001562       50.       50.       50.         3         0         0      0.00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      1.56      2.60      0.00     75.00      6.00   1173.00      0.00    158.30    158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.61 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.07

CLASS A LOW FLOW

3420 BRIDGE W.S.=     173.83 BRIDGE VELOCITY=       4.89     CALCULATED CHANNEL AREA=      1071.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
0.00	174.22	0.02	0.	5240.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4962.9 5038.1 TYPE= 1 TARGET= 75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR									
210.000	15.61	173.91	0.00	0.00	174.22	0.31	0.02	0.00	177.90
5239.7	0.0	5239.7	0.0	0.0	1171.9	0.0	52.2	4.5	100000.00
0.13	0.00	4.47	0.00	0.000	0.016	0.000	0.000	158.30	4962.92
0.000094	45.	45.	45.	0	0	0	0.00	75.17	5038.09

*SECNO 212.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 0.17

3470 ENCROACHMENT STATIONS= 4916.4 5051.8 TYPE= 1 TARGET= 135.400

212.000	17.41	173.81	0.00	0.00	174.35	0.54	0.02	0.12	174.40
5239.7	0.0	5239.7	0.0	0.0	887.3	0.0	53.8	4.6	100000.00
0.13	0.00	5.91	0.00	0.000	0.065	0.000	0.000	156.40	4975.87
0.003116	95.	65.	65.	3	0	0	0.00	75.73	5051.60

CCHV= 0.100 CEHV= 0.300
*SECNO 214.000

3470 ENCROACHMENT STATIONS= 4928.0 5051.4 TYPE= 1 TARGET= 123.400

214.000	16.79	174.39	0.00	0.00	175.01	0.62	0.64	0.02	175.10
5476.4	0.0	5476.4	0.0	0.0	869.5	0.0	57.6	5.0	100000.00
0.14	0.00	6.30	0.00	0.000	0.065	0.000	0.000	157.60	4979.41
0.003539	171.	192.	700.	2	0	0	0.00	71.98	5051.40

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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 216.000

3470 ENCROACHMENT STATIONS=     4927.8    5026.0  TYPE=      1  TARGET=       98.200
   216.000     18.79    176.49      0.00      0.00    176.98      0.49      1.96      0.01    175.60
    6357.8       0.0    6357.8       0.0       0.0    1134.3       0.0      72.5       6.2 100000.00
      0.17      0.00      5.61      0.00     0.000     0.065     0.000     0.000    157.70   4927.80
  0.002667      377.      648.      490.         2         0         0      0.00     97.59   5025.39


1490 NH CARD USED
*SECNO 218.000

3470 ENCROACHMENT STATIONS=     4918.7    5057.2  TYPE=      1  TARGET=      138.500
   218.000     20.08    178.28      0.00      0.00    178.77      0.49      1.79      0.00    178.00
    7464.7       0.7    7464.0       0.0       1.8    1332.0       0.0      92.5       8.0 100000.00
      0.21      0.40      5.60      0.00     0.050     0.065     0.000     0.000    158.20   4932.82
  0.002432      539.      704.      793.         2         0         0      0.00    124.38   5057.20


1490 NH CARD USED
*SECNO 220.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     4859.5    5089.1  TYPE=      1  TARGET=      229.600
   220.000     20.62    179.92      0.00      0.00    180.20      0.29      1.42      0.02    179.90
    7995.9       0.0    7995.9       0.0       0.0    1864.8       0.0     123.0      10.6 100000.00
      0.26      0.01      4.29      0.00     0.050     0.065     0.000     0.000    159.30   4938.31
  0.001280      817.      833.      792.         2         0         0      0.00    149.54   5087.85


1490 NH CARD USED
*SECNO 222.000

3470 ENCROACHMENT STATIONS=     4909.6    5072.1  TYPE=      1  TARGET=      162.500
   222.000     20.62    181.02      0.00      0.00    181.43      0.41      1.19      0.04    182.90
    7995.9       0.0    7995.9       0.0       0.0    1562.3       0.0     154.8      13.0 100000.00
      0.30      0.00      5.12      0.00     0.000     0.065     0.000     0.000    160.40   4957.67
  0.001706      857.      807.      704.         0         0         0      0.00    112.74   5070.41
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 224.000

3470 ENCROACHMENT STATIONS=     4919.1    5064.6  TYPE=      1  TARGET=      145.500
   224.000     18.25    182.85      0.00      0.00    183.43      0.57      1.95      0.05    185.40
    7995.9       0.0    7995.9       0.0       0.0    1314.6       0.0     184.5      15.3 100000.00
      0.34      0.00      6.08      0.00     0.000     0.065     0.000     0.000    164.60   4953.18
  0.002846     1117.      900.      417.         2         0         0      0.00    109.35   5062.52


*SECNO 226.000
3280 CROSS SECTION    226.00 EXTENDED      1.35 FEET


3470 ENCROACHMENT STATIONS=     4559.3    4691.7  TYPE=      1  TARGET=      132.400
   226.000     20.25    185.95      0.00      0.00    186.40      0.45      2.97      0.01    185.30
    7995.9       2.2    7793.7       0.0       3.3    1440.9       0.0     225.6      18.5 100000.00
      0.41      0.67      5.41      0.00     0.045     0.065     0.000     0.000    165.70   4581.62
  0.001860      887.     1300.      400.         2         0         0      0.00    109.64   4691.26


CCHV=    0.300 CEHV=    0.500
*SECNO 228.000
3280 CROSS SECTION    228.00 EXTENDED      1.41 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45


3470 ENCROACHMENT STATIONS=     4882.3    4992.3  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

   228.000     19.31    186.31      0.00      0.00    186.56      0.25      0.09      0.06 100000.00
    7795.9       0.0    7795.9       0.0       0.0    1944.6       0.0     228.4      18.7 100000.00
      0.42      0.00      4.01      0.00     0.000     0.065     0.000     0.000    167.00   4882.27
  0.000883       72.       72.       72.         2         0         0      0.00    107.38   4989.65
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      2.60      0.00    110.00      7.20   2200.00      0.00    167.00    167.00

*SECNO 230.000
3280 CROSS SECTION    230.00 EXTENDED      2.14 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.89

CLASS A LOW FLOW

3420 BRIDGE W.S.=     186.27 BRIDGE VELOCITY=       3.93     CALCULATED CHANNEL AREA=      1981.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                               AREA
      0.00    186.60      0.03        0.     7796.     2200.     2210.      188.50    191.50        0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=       190.30


        NORTHBOUND HIGHWAY 101

   230.000     18.74    186.34      0.00      0.00    186.60      0.26      0.05      0.00 100000.00
    7795.9       0.0    7795.9       0.0       0.0    1895.3       0.0     231.0      18.9    190.30
      0.42      0.00      4.11      0.00     0.000     0.016     0.000     0.000    167.60   4886.09
  0.000058       58.       58.       58.         0         0         0      0.00    106.32   4992.41


*SECNO 232.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     4957.7    5073.1  TYPE=      1  TARGET=      115.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       241.00 ELREA=    100000.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 232.000      17.97     186.37       0.00       0.00     186.61       0.24       0.01       0.01     241.00
  7795.9        0.0     7795.9        0.0        0.0     1975.8        0.0      234.4       19.1  100000.00
    0.43       0.00       3.95       0.00      0.000      0.016      0.000      0.000     168.40    4957.70
0.000117        77.        77.        77.          2          0          0       0.00     110.01    5073.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
    1.25      1.56       2.60       0.00     110.00       7.20    2200.00       0.00     168.40     168.40

*SECNO 240.000
3280 CROSS SECTION    240.00 EXTENDED      0.90 FEET

CLASS A LOW FLOW

3420 BRIDGE W.S.=     186.33 BRIDGE VELOCITY=       4.23     CALCULATED CHANNEL AREA=      1844.

 EGPRS      EGLWC       H3        QWEIR      QLOW       BAREA    TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                    AREA
      0.00    186.76      0.03        0.     7796.      2200.     2066.      188.50     190.50         0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00


        SOUTHBOUND HIGHWAY 101
 240.000      17.90     186.40       0.00       0.00     186.76       0.36       0.15       0.00  100000.00
  7795.9        0.0     7795.9        0.0        0.0     1619.0        0.0      236.4       19.2  100000.00
    0.43       0.00       4.82       0.00      0.000      0.016      0.000      0.000     168.50    4886.09
0.000090        48.        48.        48.          0          0          0       0.00     110.00    4996.09


 SECNO 242.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.16


3470 ENCROACHMENT STATIONS=     4814.0    5068.0  TYPE=      1  TARGET=      254.000
 242.000      17.37     186.27       0.00       0.00     186.93       0.66       0.02       0.15     185.00
  7795.9      220.9     7575.0        0.0      102.4     1143.4        0.0      238.7       19.4     186.90
    0.43       2.16       6.62       0.00      0.045      0.065      0.000      0.000     168.90    4814.00
0.003365        72.        72.        72.          2          0          0       0.00     177.82    4991.82
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


CCHV=    0.100 CEHV=    0.300
*SECNO 244.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.09


3470 ENCROACHMENT STATIONS=     4792.9    5042.2  TYPE=      1  TARGET=      249.300
   244.000     18.31     187.21       0.00       0.00     187.36       0.15       0.38       0.05     186.40
    8073.6       0.0     8073.6        0.0        0.0     2611.8        0.0      250.0       20.6 100000.00
      0.45      0.00       3.09       0.00      0.000      0.065      0.000      0.000     168.90    4792.90
  0.000830      137.       258.       410.          2          0          0       0.00     249.30    5042.20


*SECNO 246.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.45


3470 ENCROACHMENT STATIONS=     4943.3    5036.5  TYPE=      1  TARGET=       93.200
   246.000     18.11     187.41       0.00       0.00     188.09       0.69       0.57       0.16     187.50
    7449.6       0.0     7449.6        0.0        0.0     1120.8        0.0      266.7       22.1 100000.00
      0.47      0.00       6.65       0.00      0.000      0.065      0.000      0.000     169.30    4943.52
  0.003551      250.       390.       400.          2          0          0       0.00      92.98    5036.50


*SECNO 248.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.64


3470 ENCROACHMENT STATIONS=     4949.1    5420.0  TYPE=      1  TARGET=      470.900
   248.000     19.23     188.93       0.00       0.00     189.22       0.28       1.08       0.04     189.70
    7602.6       0.0     7159.1      443.5        0.0     1626.8      353.3      285.0       25.2     187.40
      0.50      0.00       4.40       1.26      0.000      0.065      0.045      0.000     169.70    4950.41
  0.001375      485.       523.       450.          2          0          0       0.00     469.59    5420.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 250.000

3470 ENCROACHMENT STATIONS=     4908.2    5082.1  TYPE=      1  TARGET=      173.900
   250.000     19.64    189.34      0.00      0.00    189.82      0.48      0.54      0.06    190.70
    7751.9       0.0    7746.5       5.4       0.0    1395.6       8.8     296.4      26.7    189.00
      0.52      0.00      5.55      0.61     0.000     0.060     0.045     0.000    169.70   4914.08
  0.002354      200.      310.      132.         2         0         0      0.00    168.02   5082.10

*SECNO 252.000

3470 ENCROACHMENT STATIONS=     4941.6    5056.5  TYPE=      1  TARGET=      114.900
   252.000     19.17    191.07      0.00      0.00    191.90      0.83      1.98      0.10    191.00
    7784.2       0.0    7784.2       0.0       0.1    1067.2       0.0     315.4      28.7 100000.00
      0.55      0.22      7.29      0.00     0.045     0.060     0.000     0.000    171.90   4960.76
  0.003799      145.      670.      640.         2         0         0      0.00     95.67   5056.43

*SECNO 254.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.86

3470 ENCROACHMENT STATIONS=     4713.3    5042.7  TYPE=      1  TARGET=      329.400
   254.000     20.58    192.58      0.00      0.00    192.93      0.35      0.99      0.05    191.10
    8468.7     529.6    7939.1       0.0     331.1    1623.2       0.0     332.3      31.1 100000.00
      0.57      1.60      4.89      0.00     0.045     0.060     0.000     0.000    172.00   4713.41
  0.001296      485.      488.      433.         2         0         0      0.00    328.84   5042.25

*SECNO 256.000

3470 ENCROACHMENT STATIONS=     4522.5    5032.6  TYPE=      1  TARGET=      510.100
   256.000     21.44    192.64      0.00      0.00    193.14      0.50      0.16      0.04    192.10
    8672.8     309.2    8363.6       0.0     315.1    1453.0       0.0     337.7      32.1 100000.00
      0.58      0.98      5.76      0.00     0.045     0.050     0.000     0.000    171.20   4522.50
  0.001230      106.      130.      140.         2         0         0      0.00    509.79   5032.29

 SECNO 258.000

3470 ENCROACHMENT STATIONS=     4940.7    5047.3  TYPE=      1  TARGET=      106.600
   258.000     18.75    192.75      0.00      0.00    193.40      0.65      0.22      0.05    193.10
    8672.9       0.0    8672.9       0.0       0.0    1341.1       0.0     343.0      33.3 100000.00
      0.59      0.00      6.47      0.00     0.000     0.050     0.000     0.000    174.00   4941.45
  0.001784      164.      147.      150.         2         0         0      0.00    104.50   5045.95
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 260.000

3470 ENCROACHMENT STATIONS=     4943.9    5063.9  TYPE=      1  TARGET=      120.000
   260.000     19.58    194.08      0.00       0.00    194.60      0.52       1.19       0.01    193.40
    9037.6       0.0    9037.6       0.0        0.0    1558.2       0.0      368.7       35.2 100000.00
      0.62      0.00      5.80      0.00      0.000     0.050     0.000      0.000     174.50   4943.90
  0.001360      550.      771.      533.          2         0         0       0.00     118.40   5062.30

*SECNO 262.000

3470 ENCROACHMENT STATIONS=     4943.0    5110.0  TYPE=      1  TARGET=      167.000
   262.000     20.24    194.84      0.00       0.00    195.32      0.48       0.71       0.00    193.30
   10917.1       0.0   10866.2      50.9        0.0    1948.2      41.9      392.9       37.2    193.60
      0.65      0.00      5.58      1.21      0.000     0.050     0.045      0.000     174.60   4943.00
  0.001081      450.      595.      654.          2         0         0       0.00     167.00   5110.00

*SECNO 264.000

3470 ENCROACHMENT STATIONS=     4904.2    5063.3  TYPE=      1  TARGET=      159.100
   264.000     21.55    195.15      0.00       0.00    195.50      0.35       0.16       0.01    196.30
   11236.2       0.0   11236.2       0.0        0.0    2379.1       0.0      402.3       37.9 100000.00
      0.67      0.00      4.72      0.00      0.000     0.050     0.000      0.000     173.60   4906.74
  0.000726      180.      188.      119.          2         0         0       0.00     156.56   5063.30

*SECNO 266.000

3470 ENCROACHMENT STATIONS=     4833.9    5175.0  TYPE=      1  TARGET=      341.100
   266.000     20.21    195.41      0.00       0.00    195.71      0.30       0.21       0.00    196.50
   11305.5       0.0   11187.7     117.8        0.0    2522.3     129.3      419.8       39.4    193.50
      0.68      0.00      4.44      0.91      0.000     0.045     0.045      0.000     175.20   4855.48
  0.000660      260.      306.      225.          2         0         0       0.00     319.51   5175.00

*SECNO 268.000

3470 ENCROACHMENT STATIONS=     4937.8    5085.8  TYPE=      1  TARGET=      148.000
   268.000     19.79    195.49      0.00       0.00    196.07      0.58       0.27       0.08    195.50
   11376.9       0.0   11376.9       0.0        0.0    1867.3       0.0      436.2       41.2 100000.00
      0.70      0.00      6.09      0.00      0.000     0.045     0.000      0.000     175.70   4945.51
  0.001171      260.      314.      371.          2         0         0       0.00     140.28   5085.80
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 270.000

3470 ENCROACHMENT STATIONS=     4892.5    6750.0  TYPE=      1  TARGET=    -4892.500
   270.000     18.81     196.51      0.00       0.00     196.87      0.36       0.78       0.02     196.60
   11462.1       0.0    11334.1     128.0        0.0     2351.6     171.2      478.3       45.5     196.40
      0.75      0.00       4.82      0.75      0.000      0.045     0.045      0.000     177.70    4893.07
  0.000746      390.       850.      453.          2          0         0       0.00     408.35    5301.42


*SECNO 272.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.49


3470 ENCROACHMENT STATIONS=     4953.2    7190.2  TYPE=      1  TARGET=    -4953.200
   272.000     17.66     197.06      0.00       0.00     198.12      1.06       1.04       0.21     197.10
   11462.1       0.0    11462.1       0.0        0.0     1387.4       0.0      512.2       49.6     198.80
      0.77      0.00       8.26      0.00      0.000      0.045     0.000      0.000     179.40    4953.26
  0.003151      526.       770.      471.          2          0         0       0.00     140.52    5093.78


*SECNO 274.000

3470 ENCROACHMENT STATIONS=     4857.6    6479.8  TYPE=      1  TARGET=    -4857.600
   274.000     19.84     199.44      0.00       0.00     200.26      0.82       2.12       0.02     198.80
   11462.1       5.3    11456.8       0.0        7.3     1579.0       0.0      539.9       52.3     209.20
      0.80      0.72       7.26      0.00      0.045      0.045     0.000      0.000     179.60    4870.67
  0.002204      350.       810.      290.          2          0         0       0.00     169.69    5040.36


*SECNO 276.000

3470 ENCROACHMENT STATIONS=     4898.4    6276.6  TYPE=      1  TARGET=    -4898.400
   276.000     19.21     200.61      0.00       0.00     201.18      0.57       0.89       0.02     200.70
   11462.1       0.0    11462.1       0.0        0.0     1887.9       0.0      560.6       54.2     215.50
      0.83      0.00       6.07      0.00      0.000      0.045     0.000      0.000     181.40    4899.12
  0.001381      194.       520.      550.          2          0         0       0.00     163.00    5062.12
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 278.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     4810.8    6930.1  TYPE=      1  TARGET=    -4810.800

        END CORPS OF ENGINEERS LEVEE

   278.000     18.58    202.18      0.00      0.00    203.17      1.00      1.87      0.13    199.90
   14000.0     529.4   13318.3     152.3     261.5    1622.3     201.7     620.9      64.1    201.20
      0.88      2.02      8.21      0.76     0.045     0.035     0.045     0.000    183.60   4810.80
  0.001324      639.     1400.      882.         2         0         0      0.00    671.99   5493.30


CCHV=    0.100 CEHV=    0.300
*SECNO 9970.000
3280 CROSS SECTION   9970.00 EXTENDED      2.14 FEET


3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       209.00 ELREA=       203.00


        TIE TO SCVWD 12/90 LOMR
        REMAINING X SECT ARE FROM SCVWD DECK

  9970.000     17.14    203.14      0.00      0.00    203.53      0.39      0.30      0.06    209.00
   14000.0       0.0   12611.6    1388.4       0.0    2424.8     443.8     633.9      67.5    203.00
      0.89      0.00      5.20      3.13     0.000     0.035     0.025     0.000    186.00    146.79
  0.001278      275.      230.      200.         3         0         0      0.00    691.21    838.00


*SECNO 10325.000
3280 CROSS SECTION  10325.00 EXTENDED      1.26 FEET


3301 HV CHANGED MORE THAN HVINS
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       210.50 ELREA=       202.00

 10325.000     20.07    203.27       0.00       0.00    204.19       0.92       0.50       0.16     210.50
   14000.0       0.0   13924.1       75.9       0.0     1800.5       43.9      653.2       71.3     202.00
      0.90      0.00      7.73       1.73      0.000     0.035      0.025      0.000     183.20     146.87
  0.001559      330.      355.       360.         3         0          0       0.00     241.63     388.51


*SECNO 10595.000
3280 CROSS SECTION  10595.00 EXTENDED      1.63 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       211.80 ELREA=       200.00

 10595.000     18.64    203.64       0.00       0.00    204.71       1.07       0.47       0.04     211.80
   14000.0       0.0   13504.0      496.0       0.0     1599.7      217.8      664.4       73.4     200.00
      0.91      0.00      8.44       2.28      0.000     0.035      0.025      0.000     185.00     119.67
  0.001957      290.      270.       250.         3         0          0       0.00     455.49     575.15


*SECNO 11035.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       213.00 ELREA=       200.00

 11035.000     16.87    204.37       0.00       0.00    205.88       1.51       1.04       0.13     213.00
   14000.0       0.0   13833.5      166.5       0.0     1394.9       51.9      680.8       77.0     200.00
      0.92      0.00      9.92       3.21      0.000     0.035      0.025      0.000     187.50     162.33
  0.002946      480.      440.       400.         3         0          0       0.00     309.54     471.87


*SECNO 11220.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       213.20 ELREA=       200.00

 11220.000     16.84    204.84       0.00       0.00    206.32       1.48       0.43       0.00     213.20
   14000.0       0.0   13839.7      160.3       0.0     1412.7       42.5      687.0       78.0     200.00
      0.93      0.00      9.80       3.77      0.000     0.035      0.025      0.000     188.00     205.32
  0.001887      185.      185.       185.         2         0          0       0.00     151.26     356.58


CCHV=    0.400 CEHV=    0.600
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 11560.000

3265 DIVIDED FLOW

3280 CROSS SECTION 11560.00 EXTENDED 2.85 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.42

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 213.80 ELREA= 200.00

11560.000	20.35	206.85	0.00	0.00	207.37	0.52	0.67	0.38	213.80
14000.0	0.0	13527.9	472.1	0.0	2317.9	138.3	710.5	80.4	200.00
0.95	0.00	5.84	3.41	0.000	0.040	0.030	0.000	186.50	918.70
0.000938	240.	520.	600.	2	0	0	0.00	230.05	1225.40

*SECNO 11835.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.70

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 215.20 ELREA= 215.20

D/S FACE THOMAS ROAD BRIDGE
MATCH 12/90 SCVWD LOMR

11835.000	23.95	207.35	0.00	0.00	207.61	0.26	0.14	0.10	215.20
14000.0	0.0	14000.0	0.0	0.0	3391.4	0.0	729.0	81.8	215.20
0.97	0.00	4.13	0.00	0.000	0.040	0.000	0.000	183.40	893.40
0.000324	140.	275.	300.	3	0	0	0.00	213.21	1106.60

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.50	244.00	70.00	4.00	5200.00	3.00	183.40	183.50

*SECNO 11870.000
CLASS A LOW FLOW

3420 BRIDGE W.S.= 207.29 BRIDGE VELOCITY= 4.27 CALCULATED CHANNEL AREA= 3290.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
0.00	207.63	0.01	0.	14000.	5200.	5471.	216.50	219.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 215.20 ELREA= 215.20

11870.000	23.96	207.36	0.00	0.00	207.63	0.26	0.01	0.00	215.20
14000.0	0.0	14000.0	0.0	0.0	3394.4	0.0	731.7	81.9	215.20
0.98	0.00	4.12	0.00	0.000	0.040	0.000	0.000	183.40	893.35
0.000323	35.	35.	35.	0	0	0	0.00	213.29	1106.65

TN Sec 278 to 276 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1461.6	2.01	2.18	1.09	1400.0	1343.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2937.94	2937.63	0.01	2937.94	2937.63	0.01	41	200.608	202.176	276.000	278.000

TN Sec 276 to 274 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	520.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2937.94	2937.63	0.01	41	199.444	200.608	274.000	276.000

TN Sec 274 to 272 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	810.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2937.94	2937.63	0.01	41	197.060	199.444	272.000	274.000

TN Sec 272 to 270 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	770.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2937.94	2937.63	0.01	41	196.514	197.060	270.000	272.000

TW Sec 270 to 268 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2937.94	2937.63	0.01	41	195.491	196.514	268.000	270.000

TN Sec 270 to 268 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
106.7	0.79	0.19	0.15	700.0	700.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
85.16	84.70	0.54	3023.10	3022.33	0.03	41	195.491	196.514	268.000	270.000

TW Sec 268 to 266 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3023.10	3022.33	0.03	41	195.411	195.491	266.000	268.000

TN Sec 268 to 266 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
82.8	0.86	0.31	0.25	330.0	330.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
71.39	71.13	0.37	3094.50	3093.46	0.03	41	195.411	195.491	266.000	268.000

TW Sec 266 to 264 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3094.50	3093.46	0.03	41	195.152	195.411	264.000	266.000

TN Sec 266 to 264 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
88.6	0.78	0.31	0.28	315.0	315.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
69.30	68.83	0.69	3163.80	3162.29	0.05	41	195.152	195.411	264.000	266.000

TW Sec 264 to 262 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
289.36	288.99	0.13	3453.16	3451.27	0.05	41	194.839	195.152	262.000	264.000

TN Sec 264 to 262 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
35.5	0.83	0.34	0.30	120.0	120.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
29.78	29.53	0.84	3482.93	3480.80	0.06	41	194.839	195.152	262.000	264.000

TW Sec 262 to 260 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1860.73	1860.70	0.00	5343.66	5341.50	0.04	41	194.082	194.839	260.000	262.000

TN Sec 262 to 260 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
30.5	0.61	0.34	0.17	560.0	179.8

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
18.77	18.56	1.09	5362.43	5360.06	0.04	41	194.082	194.839	260.000	262.000

TW Sec 260 to 258 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
364.63	364.22	0.11	5727.06	5724.28	0.05	41	192.750	194.082	258.000	260.000

TW Sec 260 to 258 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5727.06	5724.28	0.05	41	192.750	194.082	258.000	260.000

TW Sec 258 to 256 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.15	0.14	6.26	5727.21	5724.42	0.05	41	192.640	192.750	256.000	258.000

TW Sec 258 to 256 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5727.21	5724.42	0.05	41	192.640	192.750	256.000	258.000

TW Sec 256 to 254 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
204.12	203.92	0.10	5931.33	5928.34	0.05	41	192.579	192.640	254.000	256.000

TW Sec 256 to 254 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5931.33	5928.34	0.05	41	192.579	192.640	254.000	256.000

TW Sec 254 to 252 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
684.48	681.50	0.44	6615.81	6609.84	0.09	41	191.070	192.579	252.000	254.000

TW Sec 254 to 252 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6615.81	6609.84	0.09	41	191.070	192.579	252.000	254.000

TW Sec 252 to 250 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6615.81	6609.84	0.09	41	189.337	191.070	250.000	252.000

TW Sec 252 to 250 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
32.30	31.31	3.09	6648.11	6641.15	0.10	41	189.337	191.070	250.000	252.000

TW Sec 250 to 248 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6648.11	6641.15	0.10	41	188.933	189.337	248.000	250.000

TW Sec 244 to 242 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
277.70	272.54	1.87	7694.55	7664.31	0.39	41	186.269	187.212	242.000	244.000

TW Sec 242 to 240 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	186.402	186.269	240.000	242.000

TW Sec 228 to 226 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	185.951	186.306	226.000	228.000

TW Sec 228 to 226 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	185.951	186.306	226.000	228.000

TW Sec 226 to 224 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	182.853	185.951	224.000	226.000

TW Sec 226 to 224 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	182.853	185.951	224.000	226.000

TW Sec 224 to 222 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	181.020	182.853	222.000	224.000

TW Sec 224 to 222 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	181.020	182.853	222.000	224.000

TW Sec 222 to 220 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	179.919	181.020	220.000	222.000

TW Sec 222 to 220 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	179.919	181.020	220.000	222.000

TW Sec 220 to 218 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7694.55	7664.31	0.39	41	178.280	179.919	218.000	220.000

TW Sec 220 to 218 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
531.18	431.49	20.71	8225.73	8095.80	1.59	41	178.280	179.919	218.000	220.000

TW Sec 218 to 216 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
629.78	453.64	32.52	8855.51	8549.44	3.52	41	176.495	178.280	216.000	218.000

TW Sec 218 to 216 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
477.14	366.99	26.10	9332.65	8916.44	4.56	41	176.495	178.280	216.000	218.000

TW Sec 216 to 214 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
284.60	199.77	35.02	9617.25	9116.21	5.35	41	174.394	176.495	214.000	216.000

TW Sec 216 to 214 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
596.82	388.50	42.28	10214.07	9504.72	7.19	41	174.394	176.495	214.000	216.000

TW Sec 214 to 212 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10214.07	9504.72	7.19	41	173.809	174.394	212.000	214.000

TW Sec 214 to 212 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
236.67	151.77	43.72	10450.74	9656.48	7.90	41	173.809	174.394	212.000	214.000

TW Sec 212 to 210 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10450.74	9656.48	7.90	41	173.907	173.809	210.000	212.000

TW Sec 212 to 210 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.04	0.00	0.00	10450.78	9656.48	7.90	41	173.907	173.809	210.000	212.000

TW Sec 208 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10450.78	9656.48	7.90	41	173.961	173.885	206.000	208.000

TW Sec 208 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
25.18	15.79	45.85	10475.96	9672.27	7.98	41	173.961	173.885	206.000	208.000

TW Sec 206 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10475.96	9672.27	7.98	41	173.396	173.961	204.000	206.000

TW Sec 206 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10475.96	9672.27	7.98	41	173.396	173.961	204.000	206.000

TW Sec 204 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10475.96	9672.27	7.98	41	172.774	173.396	202.000	204.000

TW Sec 204 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10475.97	9672.27	7.98	41	172.774	173.396	202.000	204.000

TW Sec 202 to 200 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
975.33	754.99	25.47	11451.29	10427.26	9.36	41	172.448	172.774	200.000	202.000

TW Sec 202 to 200 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
167.79	78.36	72.67	11619.09	10505.62	10.07	41	172.448	172.774	200.000	202.000

THIS RUN EXECUTED 19JUL96 15:30:51

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************************************
.EC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS - CASE 1

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	200.000	0.00	0.00	0.00	150.20	4071.35	172.45	0.00	172.58	5.71	2.92	1491.33	1704.18
	202.000	521.90	0.00	0.00	150.50	5214.48	172.77	0.00	173.03	10.59	4.02	1303.97	1602.01
	204.000	516.30	0.00	0.00	152.50	5214.48	173.40	0.00	173.73	16.71	4.62	1128.34	1275.74
*	206.000	480.70	0.00	0.00	153.70	5214.48	173.96	0.00	174.06	3.34	2.50	2159.95	2854.48
*	208.000	50.00	0.00	0.00	158.30	5239.66	173.88	0.00	174.20	15.62	4.48	1170.46	1325.56
*	210.000	45.40	177.80	175.30	158.30	5239.66	173.91	0.00	174.22	0.94	4.47	1171.86	5394.32
*	212.000	65.30	0.00	0.00	156.40	5239.70	173.81	0.00	174.35	31.16	5.91	887.26	938.68
	214.000	191.80	0.00	0.00	157.60	5476.37	174.39	0.00	175.01	35.39	6.30	869.46	920.60
	216.000	647.60	0.00	0.00	157.70	6357.79	176.49	0.00	176.98	26.67	5.61	1134.29	1231.00
	218.000	703.90	0.00	0.00	158.20	7464.72	178.28	0.00	178.77	24.32	5.60	1333.88	1513.70
*	220.000	832.90	0.00	0.00	159.30	7995.89	179.92	0.00	180.20	12.80	4.29	1864.86	2234.94
	222.000	806.70	0.00	0.00	160.40	7995.89	181.02	0.00	181.43	17.06	5.12	1562.30	1936.09
	224.000	900.00	0.00	0.00	164.60	7995.89	182.85	0.00	183.43	28.46	6.08	1314.63	1498.83
	226.000	1300.00	0.00	0.00	165.70	7795.89	185.95	0.00	186.40	18.60	5.41	1444.15	1807.71
*	228.000	71.70	0.00	0.00	167.00	7795.89	186.31	0.00	186.56	8.83	4.01	1944.65	2623.07
*	230.000	58.00	191.50	188.50	167.60	7795.89	186.34	0.00	186.60	0.58	4.11	1895.25	10206.91
	232.000	77.00	0.00	0.00	168.40	7795.89	186.37	0.00	186.61	1.17	3.95	1975.82	7211.47

Run Date: 19JUL96 Run Time: 15:30:45 HMVersion: 6.52 Data File: case1a.hC2 Page 41

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	240.000	47.70	190.50	188.50	168.50	7795.89	186.40	0.00	186.76	0.90	4.82	1619.03	8224.64
	242.000	72.20	0.00	0.00	168.90	7795.89	186.27	0.00	186.93	33.65	6.62	1245.81	1343.83
*	244.000	258.20	0.00	0.00	168.90	8073.59	187.21	0.00	187.36	8.30	3.09	2611.84	2802.09
*	246.000	389.50	0.00	0.00	169.30	7449.59	187.41	0.00	188.09	35.51	6.65	1120.80	1250.12
*	248.000	523.10	0.00	0.00	169.70	7602.58	188.93	0.00	189.22	13.75	4.40	1980.03	2050.45
	250.000	310.20	0.00	0.00	169.70	7751.89	189.34	0.00	189.82	23.54	5.55	1404.41	1597.81
	252.000	670.00	0.00	0.00	171.90	7784.19	191.07	0.00	191.90	37.99	7.29	1067.29	1262.87
*	254.000	488.20	0.00	0.00	172.00	8468.67	192.58	0.00	192.93	12.96	4.89	1954.27	2352.28
	256.000	130.40	0.00	0.00	171.20	8672.79	192.64	0.00	193.14	12.30	5.76	1768.12	2473.35
	258.000	147.30	0.00	0.00	174.00	8672.94	192.75	0.00	193.40	17.84	6.47	1341.15	2053.48
	260.000	771.20	0.00	0.00	174.50	9037.57	194.08	0.00	194.60	13.60	5.80	1558.23	2450.61
	262.000	595.20	0.00	0.00	174.60	10917.07	194.84	0.00	195.32	10.81	5.58	1990.16	3321.12
	264.000	187.80	0.00	0.00	173.60	11236.20	195.15	0.00	195.50	7.26	4.72	2379.07	4169.17
	266.000	305.60	0.00	0.00	175.20	11305.50	195.41	0.00	195.71	6.60	4.44	2651.53	4399.22
	268.000	314.20	0.00	0.00	175.70	11376.90	195.49	0.00	196.07	11.71	6.09	1867.33	3324.40
	270.000	850.00	0.00	0.00	177.70	11462.06	196.51	0.00	196.87	7.46	4.82	2522.80	4195.30
*	272.000	770.00	0.00	0.00	179.40	11462.06	197.06	0.00	198.12	31.51	8.26	1387.35	2042.03
	274.000	810.00	0.00	0.00	179.60	11462.06	199.44	0.00	200.26	22.04	7.26	1586.32	2441.56
	276.000	520.00	0.00	0.00	181.40	11462.06	200.61	0.00	201.18	13.81	6.07	1887.93	3084.20
	278.000	1400.00	0.00	0.00	183.60	14000.00	202.18	0.00	203.17	13.24	8.21	2085.51	3847.40
	9970.000	230.00	0.00	0.00	186.00	14000.00	203.14	0.00	203.53	12.78	5.20	2868.60	3916.33
	10325.000	355.00	0.00	0.00	183.20	14000.00	203.27	0.00	204.19	15.59	7.73	1844.38	3545.74
	10595.000	270.00	0.00	0.00	185.00	14000.00	203.64	0.00	204.71	19.57	8.44	1817.51	3164.40
	11035.000	440.00	0.00	0.00	187.50	14000.00	204.37	0.00	205.88	29.46	9.92	1446.80	2579.38
	11220.000	185.00	0.00	0.00	188.00	14000.00	204.84	0.00	206.32	18.87	9.80	1455.17	3223.20
*	11560.000	520.00	0.00	0.00	186.50	14000.00	206.85	0.00	207.37	9.38	5.84	2456.16	4570.86

Run Date: 19JUL96 Run Time: 15:30:45 HMVersion: 6.52 Data File: case1a.hC2 Page 42

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	11835.000	275.00	0.00	0.00	183.40	14000.00	207.35	0.00	207.61	3.24	4.13	3391.36	7780.77
	11870.000	35.00	219.50	216.50	183.40	14000.00	207.36	0.00	207.63	3.23	4.12	3394.44	7790.41

LOWER UVAS - CASE 1

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	200.000	4071.35	172.45	0.00	0.00	2.45	184.80	0.00
	202.000	5214.48	172.77	0.00	0.33	0.00	113.44	521.90
	204.000	5214.48	173.40	0.00	0.62	0.00	88.73	516.30
*	206.000	5214.48	173.96	0.00	0.57	0.00	165.11	480.70
*	208.000	5239.66	173.88	0.00	-0.08	0.00	75.19	50.00
*	210.000	5239.66	173.91	0.00	0.02	0.00	75.17	45.40
*	212.000	5239.70	173.81	0.00	-0.10	0.00	75.73	65.30
	214.000	5476.37	174.39	0.00	0.58	0.00	71.98	191.80
	216.000	6357.79	176.49	0.00	2.10	0.00	97.59	647.60
	218.000	7464.72	178.28	0.00	1.79	0.00	124.38	703.90
*	220.000	7995.89	179.92	0.00	1.64	0.00	149.54	832.90
	222.000	7995.89	181.02	0.00	1.10	0.00	112.74	806.70
	224.000	7995.89	182.85	0.00	1.83	0.00	109.35	900.00
	226.000	7795.89	185.95	0.00	3.10	0.00	109.64	1300.00
*	228.000	7795.89	186.31	0.00	0.35	0.00	107.38	71.70
*	230.000	7795.89	186.34	0.00	0.03	0.00	106.32	58.00
	232.000	7795.89	186.37	0.00	0.03	0.00	110.01	77.00
	240.000	7795.89	186.40	0.00	0.03	0.00	110.00	47.70
*	242.000	7795.89	186.27	0.00	-0.13	0.00	177.82	72.20
	244.000	8073.59	187.21	0.00	0.94	0.00	249.30	258.20
*	246.000	7449.59	187.41	0.00	0.20	0.00	92.98	389.50
*	248.000	7602.58	188.93	0.00	1.53	0.00	469.59	523.10
	250.000	7751.89	189.34	0.00	0.40	0.00	168.02	310.20
	252.000	7784.19	191.07	0.00	1.73	0.00	95.67	670.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	254.000	8468.67	192.58	0.00	1.51	0.00	328.84	488.20
	256.000	8672.79	192.64	0.00	0.06	0.00	509.79	130.40
	258.000	8672.94	192.75	0.00	0.11	0.00	104.50	147.30
	260.000	9037.57	194.08	0.00	1.33	0.00	118.40	771.20
	262.000	10917.07	194.84	0.00	0.76	0.00	167.00	595.20
	264.000	11236.20	195.15	0.00	0.31	0.00	156.56	187.80
	266.000	11305.50	195.41	0.00	0.26	0.00	319.51	305.60
	268.000	11376.90	195.49	0.00	0.08	0.00	140.28	314.20
	270.000	11462.06	196.51	0.00	1.02	0.00	408.35	850.00
*	272.000	11462.06	197.06	0.00	0.55	0.00	140.52	770.00
	274.000	11462.06	199.44	0.00	2.38	0.00	169.69	810.00
	276.000	11462.06	200.61	0.00	1.16	0.00	163.00	520.00
	278.000	14000.00	202.18	0.00	1.57	0.00	671.99	1400.00
	9970.000	14000.00	203.14	0.00	0.96	0.00	691.21	230.00
	10325.000	14000.00	203.27	0.00	0.13	0.00	241.63	355.00
	10595.000	14000.00	203.64	0.00	0.37	0.00	455.49	270.00
	11035.000	14000.00	204.37	0.00	0.73	0.00	309.54	440.00
	11220.000	14000.00	204.84	0.00	0.47	0.00	151.26	185.00
*	11560.000	14000.00	206.85	0.00	2.02	0.00	230.05	520.00
*	11835.000	14000.00	207.35	0.00	0.50	0.00	213.21	275.00
	11870.000	14000.00	207.36	0.00	0.01	0.00	213.29	35.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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.ARNING SECNO=    206.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    212.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    220.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    228.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    230.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    242.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    244.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    248.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    254.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    272.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=  11560.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=  11835.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: case2a.HC2

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*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    30APR96    TIME   10:43:58 *
*******************************************
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***************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
***************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX     XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                       :::
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============================
H A E S T A  D   M E T H O D S
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

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                                                                    THIS RUN EXECUTED  30APR96    10:43:58
*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************



SPLIT FLOW BEING PERFORMED


SF      MODEL SPILL FROM PERCHED CHANNEL FAILING LOWER LEFT LEVEE


JC      LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.            40.     -1.

TN  Sec 278 to 276 Left (Spill over SPRR)
NS2.    276.    278.    -1.     .045    .00245
NG0.    200.7       1400.200.0

TN  Sec 278 to 276 Left (Return to Sec 218)
NS2.    276.    278.    218.    .045    .00006
NG0.    200.7       1400.200.0

TN  Sec 276 to 274 Left
NS2.    274.    276.    218.    .045    .00206
NG0.    199.8        520.200.7

TN  Sec 274 to 272 Left
NS2.    272.    274.    218.    .045    .00255
NG0.    197.1        810.199.8

TN  Sec 272 to 270 Left
NS2.    270.    272.    218.    .045    .00385
NG0.    196.6        770.197.1

TW  Sec 270 to 268 Left
WS2.    268.    270.    218.    2.6
WC0.    196.7        850.196.6

TN  Sec 270 to 268 Right
NS2.    268.    270.    -1.     .045    .00710
NG0.    195.3   700.    196.4

TW  Sec 268 to 266 Left
WS2.    266.    268.    218.    2.6
WC0.    197.1   285.    196.7
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TN  Sec 268 to 266 Right
NS2.    266.    268.    -1.     .045    .00428
NG0.    195.1   330.    195.3

TW  Sec 266 to 264 Left
WS2.    264.    266.    218.    2.6
WC0.    196.3   275.    197.1

TN  Sec 266 to 264 Right
NS2.    264.    266.    -1.     .045    .003
NG0.    194.9   315.    195.1

TW  Sec 264 to 262 Left
WS2.    262.    264.    218.    2.6
WC0.    193.3   254.    196.3

TN  Sec 264 to 262 Right
NS2.    262.    264.    -1.     .045    .00323
NG0.    194.5   120.    194.9

TW  Sec 262 to 260 Left (Return to Sec 218)
WS2.    260.    262.    218.    1.35
WC0.    193.4   600.    193.3

TW  Sec 262 to 260 Left (Return to Sec 244)
WS2.    260.    262.    244.    1.25
WC0.    193.4   600.    193.3

TN  Sec 262 to 260 Right
NS2.    260.    262.    -1.     .045    .00361
NG0.    194.8   560.    194.5

TW  Sec 260 to 258 Left
WS2.    258.    260.    218.    2.6
WC0.    193.1   940.    193.4

TW  Sec 260 to 258 Right
WS2.    258.    260.    -1.     2.6
WC0.    193.7   860.    194.8

TW  Sec 258 to 256 Left
WS2.    256.    258.    218.    .045    .0027
WC0.    192.6   164.    193.1

TW  Sec 258 to 256 Right
WS2.    256.    258.    -1.     2.6
WC0.    193.0   150.    193.7

TW  Sec 256 to 254 Left
WS2.    254.    256.    218.    2.6
WC0.    191.1   106.    192.6
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TW  Sec 256 to 254 Right
WS2.    254.    256.    -1.     2.6
WC0.    193.0   130.    193.0

TW  Sec 254 to 252 Left
WS2.    252.    254.    218.    2.6
WC0.    191.5   470.    191.1

TW  Sec 254 to 252 Right
WS2.    252.    254.    -1.     2.6
WC0.    191.1   470.    193.0

TW  Sec 252 to 250 Left
WS2.    250.    252.    218.    2.6
WC0.    190.7   500.    191.5

TW  Sec 252 to 250 Right
WS2.    250.    252.    -1.     2.6
WC0.    189.2   720.    191.1

TW  Sec 250 to 248 Left
WS2.    248.    250.    218.    2.6
WC0.    189.7   350.    190.7

TW  Sec 250 to 248 Right
WS2.    248.    250.    -1.     2.6
WC0.    188.4   280.    189.2

TW  Sec 248 to 246 Left
WS2.    246.    248.    218.    0.0
WC0.    187.5   450.    189.7

TN  Sec 248 to 246 Right
NS2.    246.    248.    -1.     .045    .00370
NG0.    187.2   385.    188.4

TW  Sec 246 to 244 Left
WS2.    244.    246.    218.    0.0
WC0.    186.4   355.    187.5

TN  Sec 246 to 244 Right
NS2.    244.    246.    -1.     .045    .00475
NG0.    186.1   400.    187.2

TW  Sec 244 to 242 Left
WS2.    242.    244.    218.    0.0
WC0.    185.0   200.    186.4

TW  Sec 244 to 242 Right
WS2.    242.    244.    -1.     2.6
WC0.    186.9   350.    186.1
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TW  Sec 242 to 240 Right
WS2.    240.    242.    -1.     2.6
WC0.    187.5   72.2    186.9

TN  Sec 228 to 226 Left (LEVEE FAILS)
NS2.    226.    228.    218.    .045    .0214
NG0.    186.8   71.7    190.4

TW  Sec 228 to 226 Right
WS2.    226.    228.    -1.     2.6
WC0.    186.3   71.7    191.0

TN  Sec 226 to 224 Left (LEVEE FAILS)
NS2.    224.    226.    218.    .045    .0165
NG0.    186.4   950.    186.8

TW  Sec 226 to 224 Right
WS2.    224.    226.    -1.     2.6
WC0.    183.7   1200.   186.3

TN  Sec 224 to 222 Left (LEVEE FAILS)
NS2.    222.    224.    218.    .05     .0135
NG0.    181.0       900.183.7

TW  Sec 224 to 222 Right
WS2.    222.    224.    -1.     2.6
WC0.    181.8       730.183.7

TN  Sec 222 to 220 Left (LEVEE FAILS)
NS2.    220.    222.    218.    .05     .0072
NG0.    179.6   790.    181.0

TW  Sec 222 to 220 Right
WS2.    220.    222.    -1.     2.6
WC0.    180.3   807.    181.8
```

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( djs)  April 1992
T3      LOWER UVAS - CASE 2     CASE 2: FAIL LEFT LEVEE BETWEEN SPRR & 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

          2.                                                                      174.2

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.               -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Ponding WSEL at Sec 218


NC                                  .1        .3
QT  1.       14600.

NH  4.       .05       4945.7    .065      5057.2    .05       7079.8    .045      9325.7
X1  218.0    29.0      4945.7    5057.2    538.6     793.3     703.9
X3                                3087.6              5057.2
GR  174.1    3087.6    172.7     3113.6    169.9     3122.2    169.1     3188.5    172.7     4406.6
GR  175.2    4809.1    176.2     4910.9    176.2     4918.7    176.2     4945.7    158.2     4991.7
GR  158.2    5000.0    158.2     5010.1    177.4     5057.2    176.3     5200.9    175.7     6505.5
GR  178.3    6943.2    178.3     6977.0    177.0     6986.2    177.0     6998.7    178.7     7013.2
GR  177.6    7063.5    174.3     7068.4    176.9     7079.8    169.9     8384.5    169.4     9192.3
GR  167.7    9197.5    169.9     9207.7    170.2     9250.9    191.9     9325.7


NH  4.       .05       4939.8    .065      5089.1    .12       6776.6    .045      9648.2
X1  220.0    28.0      4939.8    5089.1    817.4     792.2     832.9
X3                                3287.7              5089.1
GR  174.3    3242.6    174.3     3282.7    169.3     3310.5    170.7     3324.3    179.6     4815.6
GR  179.6    4859.5    179.6     4939.8    159.3     4987.3    159.3     5000.0    159.3     5020.1
GR  180.3    5089.1    177.8     5755.7    180.1     6769.5    181.5     6776.6    181.5     6801.1
GR  179.5    6817.7    179.4     6827.1    182.0     6849.6    181.6     6884.0    178.0     6905.4
GR  179.8    6916.3    172.6     8522.3    174.3     9384.1    170.3     9396.8    170.3     9400.3
GR  174.2    9406.0    186.4     9458.5    195.4     9648.2


NH  4.       .05       4955.0    .065      5072.1    .12       6451.3    .045      9633.8
X1  222.0    28.0      4955.0    5072.1    857.3     703.5     806.7
X3                                4909.6              5072.1
GR  174.6    3268.0    174.6     3297.7    171.2     3312.3    176.8     4408.9    181.0     4902.0
GR  181.0    4909.6    181.0     4955.0    160.4     4986.9    160.4     5000.0    160.4     5025.7
GR  181.8    5072.1    180.9     5247.9    182.4     6451.3    182.4     6475.6    183.8     6489.5
GR  183.7    6528.2    181.9     6567.0    181.4     6795.3    180.0     6799.5    175.2     8299.1
GR  176.0    8967.4    174.9     8975.3    176.6     8982.3    183.6     9492.3    199.1     9524.3
GR  198.7    9569.8    201.3     9587.2    201.5     9633.8
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NH   5.       .05        4251.3     .045       4949.0     .065       5064.6     .12        6351.3     .045
NH   9467.
X1   224.0    28.0       4949.0     5064.6     1117.2     416.9         900.0
X3                                  4919.1                5064.6
GR   178.5    3010.0     178.5      3034.0     174.3      3052.8     178.9      4251.3     182.0      4815.1
GR   183.7    4907.2     183.7      4919.1     183.7      4949.0     164.6      4983.1     164.6      5000.0
GR   164.6    5017.8     183.7      5064.6     183.3      5241.1     183.4      6242.7     183.4      6310.1
GR   181.7    6325.2     184.7      6351.3     183.3      6386.9     181.2      6404.2     176.3      7944.5
GR   177.0    8800.6     175.9      8808.5     177.6      8815.5     184.6      9325.5     199.1      9357.5
GR   198.7    9403.0     201.3      9420.4     201.5      9467.0
```

D/S Highway 101

```
NC   .045     .05        .065
QT   1.       14400.
X1   226.0    20.0       4945.5     5060.4     887.0      400.          1290.   .87
X3                                  4559.28               4691.68
GR   178.4    2224.1     178.7      2251.1     175.2      2267.7     178.0      3416.3     179.1      3518.1
GR   175.2    3601.8     177.5      3609.1     182.3      4401.4     184.9      4591.6     186.8      4722.8
GR   187.4    4908.2     185.3      4945.5     165.7      4983.6     165.7      5000.0     165.7      5031.5
GR   186.3    5060.4     177.5      5116.9     176.7      5233.8     185.6      5288.4     184.6      5685.8
```

D/S Face Northbound Highway 101 Bridge

```
NC                                  .3         .5
X1   228.0    9.0        4946.5     5080.5     71.7        71.7       71.7       .87
X3   10.                            4882.27               4992.27
GR   186.2    4405.9     188.9      4893.6     190.4      4946.5     167.0      4955.2     167.0      5000.0
GR   167.0    5062.0     191.0      5080.5     186.7      5358.9     184.9      5717.5
```

U/S Face Northbound Highway 101 Bridge

```
NC   .02      .02        .016
SB   1.25     1.56       2.6                   110.       7.2        2200.      0.
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NORTHBOUND HIGHWAY 101

```
X1   230.0    13.0       4942.7     5078.2     58.        58.        58.        .87
X2                       1.         188.5      191.5                            2.0        .87
X3   10.                            4886.09               4996.09
BT   -13.0    4435.3     185.8      184.1      4492.3     186.4      184.6      4885.5     190.7      190.2
BT            4942.7     191.5      191.3      4942.8     191.5      188.5      4954.0     191.7      188.5
BT            5000.0     192.4      188.5      5063.8     191.8      188.5      5078.1     191.6      188.5
BT            5078.2     191.6      190.3      5314.8     189.2      187.8      5762.1     185.2      185.0
BT            5764.5     185.2      184.2
GR   184.1    4435.3     184.6      4492.3     190.2      4885.5     191.3      4942.7     191.2      4942.8
GR   167.6    4954.0     167.6      5000.0     167.6      5063.8     190.2      5078.1     190.3      5078.2
GR   187.8    5314.8     185.0      5762.1     184.2      5764.5
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D/S Face Southbound Highway 101 Bridge

```
X1   232.     17.        4957.7     5073.1     77.        77.        77.
X3   10.                            4957.7                5073.1
GR   191.0    4957.7     168.4      4957.71    168.4      4983.7     188.5      4983.71    188.5      4985.5
GR   168.4    4985.6     168.4      5000.      168.4      5014.5     188.5      5014.51    188.5      5016.3
GR   168.4    5016.31    168.4      5045.3     188.5      5045.31    188.5      5047.1     168.4      5047.11
GR   168.4    5073.1     191.0      5073.11

  U/S Face Southbound Highway 101 Bridge

SB   1.25     1.56       2.6                   110.       7.2        2200.      0.

        SOUTHBOUND HIGHWAY 101
X1   240.0    12.0       4931.6     5079.6     47.7       47.7       47.7       .87
X2                       1.         188.5      190.5                            2.0        .87
X3   10.                            4886.09                4996.09
BT   -12.0    4493.2     184.7      183.7      4515.7     185.0      184.9      4856.7     189.7      186.9
BT            4931.6     190.5      183.8      4931.7     190.5      188.5      4965.2     190.7      188.5
BT            5000.0     191.0      188.5      5031.8     190.8      188.5      5079.5     190.4      188.5
BT            5079.6     190.4      187.5      5294.9     188.9      187.6      5762.4     186.1      185.5
GR   183.7    4493.2     184.9      4515.7     186.9      4856.7     183.8      4931.6     183.7      4931.7
GR   168.5    4965.2     168.5      5000.0     168.5      5031.8     187.4      5079.5     187.5      5079.6
GR   187.6    5294.9     185.5      5762.4

  U/S Highway 101

NC   .045     .045       .065
X1   242.0    19.0       4951.8     5060.3     72.2       72.2       72.2       .87
X3                                  4814.                 5068.
GR   185.5    4542.3     185.0      4951.8     168.9      4980.9     168.9      5000.0     168.9      5022.9
GR   186.9    5060.3     186.1      5272.0     184.3      5319.5     183.4      5558.0     180.6      6660.6
GR   178.9    7856.7     178.7      8458.8     176.6      8465.2     176.5      8469.8     179.8      8477.2
GR   185.3    8534.1     200.0      8589.0     200.1      8616.4     198.6      8720.0

NC                                  .1         .3
X1   244.0    22.0       4792.9     5042.2     137.0      410.       258.2
X3                                  4792.9                5042.2
GR   186.3    4442.5     186.5      4473.1     185.2      4483.0     186.3      4495.2     186.3      4527.3
GR   185.6    4597.7     185.6      4792.9     168.9      4989.2     168.9      5000.0     168.9      5014.8
GR   186.1    5042.2     185.3      5231.4     182.7      6563.8     181.0      7390.      179.6      7610.
GR   182.9    7626.      185.7      7818.4     193.0      7844.      194.6      7907.      194.9      7954.0
GR   196.1    7974.9     195.9      8034.8

X1   246.0    34.0       4943.3     5036.5     250.       400.       389.5
X3                                  4943.3                5036.5
GR   179.3    2099.9     179.3      2122.2     175.3      2135.8     179.1      3207.4     183.7      4161.6
GR   184.8    4209.9     186.7      4218.2     186.8      4246.9     185.6      4256.8     186.0      4273.7
GR   186.0    4300.0     184.4      4313.0     185.6      4338.4     185.0      4398.7     185.3      4489.2
GR   186.7    4504.6     186.6      4529.6     185.5      4536.6     186.8      4831.9     187.5      4943.3
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GR   169.3    4987.4    169.3     5000.0    169.3     5018.0    187.2     5036.5    186.3     5207.1
GR   183.8    6460.     183.1     6700.     182.5     7450.     180.8     7460.     184.1     7476.
GR   186.0    7668.     195.2     7694.     198.3     7757.     197.9     7800.

X1   248.0    27.0      4949.1    5080.3    485.0     450.      523.1
X3                                4949.1              5420.
GR   180.4    2240.4    180.4     2265.6    175.3     2278.4    180.7     3315.8    183.7     4140.6
GR   185.4    4211.4    186.9     4232.3    186.7     4263.6    190.6     4300.5    189.1     4372.1
GR   185.1    4399.6    186.8     4429.9    186.0     4469.3    187.8     4890.1    189.7     4949.1
GR   169.7    4983.5    169.7     5000.0    169.7     5017.7    187.4     5080.3    188.4     5420.
GR   184.6    7210.     184.0     7355.     182.0     7363.     185.4     7376.     186.3     7496.
GR   197.5    7549.     202.1     7587.

NC                      .06
X1   250.0    30.0      4908.2    5045.1    200.      132.1     310.2
X3                                4908.2              5082.1
GR   180.9    1870.5    180.9     1895.1    175.4     1914.2    182.4     3284.1    183.7     3696.8
GR   185.7    3731.9    185.7     3759.2    185.3     3768.5    187.8     3791.6    187.6     3824.4
GR   191.4    3862.8    190.8     3923.4    187.2     3974.4    189.9     4837.2    190.7     4908.2
GR   185.6    4930.2    181.1     4966.7    169.7     4990.9    169.7     5000.0    169.7     5018.7
GR   189.0    5045.1    189.2     5082.1    188.4     5173.1    184.6     6960.7    184.0     7105.
GR   182.0    7113.     185.4     7126.     186.3     7246.     197.5     7300.     202.1     7337.

X1   252.0    30.0      4963.9    5056.5    145.1     640.          670.0
X3                                4941.6              5056.5
GR   181.8    1953.8    181.8     1977.8    177.0     1996.2    181.1     2612.0    184.0     3727.5
GR   186.3    3771.5    186.3     3796.7    185.9     3807.2    190.3     3834.3    189.6     3872.7
GR   189.6    3886.1    191.0     3905.3    190.2     3986.8    188.0     4016.5    188.0     4048.7
GR   186.9    4060.0    190.8     4927.5    191.5     4941.6    191.0     4963.9    171.9     4992.8
GR   171.9    5000.0    171.9     5011.5    191.1     5056.5    189.8     5143.9    186.9     6480.
GR   189.2    6640.     194.4     6810.     199.1     7110.     201.2     7200.     203.9     7300.

X1   254.0    35.0      4927.3    5042.7    485.2     433.0     488.2
X3                                4713.3              5042.7
GR   183.2    1987.3    183.2     2015.8    177.4     2034.1    184.6     3112.4    186.8     3516.3
GR   188.0    3622.3    189.4     3631.9    189.4     3651.7    188.2     3666.6    192.3     3692.0
GR   192.3    3733.4    190.4     3759.4    193.2     3793.0    192.8     3839.7    189.5     3867.8
GR   189.5    3916.7    186.8     3928.8    188.1     4059.3    190.6     4071.9    191.9     4509.7
GR   192.6    4713.3    190.9     4722.8    191.1     4927.3    172.0     4981.4    172.0     5000.0
GR   172.0    5020.3    193.0     5042.7    191.2     5098.7    190.3     5400.     190.0     5710.
GR   189.7    6100.     188.4     6450.     195.7     6600.     203.3     6810.     206.6     7260.

NC                      .05
X1   256.0    33.0      4935.4    5032.6    106.4     140.      130.4
X3                                4719.9              5032.6
GR   183.3    2049.5    183.3     2073.0    178.1     2098.1    185.9     3311.1    187.3     3567.1
GR   189.8    3643.4    189.8     3667.5    189.1     3681.9    192.4     3710.6    192.4     3750.5
GR   191.2    3779.1    193.1     3810.7    192.6     3866.2    189.1     3887.5    189.3     3930.8
GR   188.2    3936.9    188.1     4072.3    190.9     4081.4    192.6     4522.5    191.4     4719.9
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GR   192.1   4935.4   174.4    4964.8   173.4    4986.9   171.3    5000.0   171.2    5014.2
GR   193.0   5032.6   191.2    5094.7   190.9    5430.    190.8    5820.    189.3    6270.
GR   193.7   6400.    185.9    6610.    208.4    7100.

X1   258.0   26.0     4940.7   5047.3   163.5    150.0    147.3
X3                             4940.7            5047.3
GR   183.3   2126.7   183.1    2158.1   178.4    2180.7   184.6    3244.4   186.6    3583.9
GR   189.0   3639.7   190.5    3696.2   193.0    3765.5   191.5    3795.2   194.1    3829.5
GR   194.6   3887.2   189.9    3905.4   189.1    4146.8   192.3    4910.9   193.1    4940.7
GR   174.0   4981.0   174.0    5000.0   174.0    5019.6   193.7    5047.3   191.8    5149.1
GR   192.0   5540.    190.5    6050.    190.7    6185.    199.3    6410.    194.8    6890.
GR   205.1   7350.

X1   260.0   30.0     4943.9   5063.9   550.     532.8    771.2
X3                             4943.9            5063.9
GR   184.8   2858.8   184.4    2868.1   182.6    2876.3   184.6    2883.9   184.6    2898.8
GR   179.6   2915.8   184.6    3847.6   186.2    3937.8   189.3    4016.1   189.2    4085.8
GR   185.8   4101.9   185.8    4112.4   188.9    4130.7   191.3    4198.1   194.3    4244.7
GR   191.7   4272.5   197.1    4377.7   189.1    4403.4   193.2    4926.6   193.4    4943.9
GR   174.5   4979.2   174.5    5000.0   174.5    5018.7   194.8    5063.9   193.8    5255.6
GR   193.2   5975.    192.9    6115.    192.1    6385.    195.8    6900.    212.5    7600.

X1   262.0   34.0     4943.0   5075.7   450.     654.0    595.2
X3                             4943.0               5110.
GR   186.0   2881.8   186.2    2915.7   181.5    2939.7   182.5    3202.9   188.4    3262.9
GR   188.5   3329.4   189.8    3416.7   187.7    3527.2   204.5    3550.5   205.0    3660.1
GR   207.3   3762.1   204.1    3803.5   205.8    3846.7   205.4    3922.7   190.6    3957.8
GR   190.6   3970.1   195.9    4003.7   195.9    4044.5   185.8    4071.5   188.3    4107.5
GR   186.2   4150.8   192.4    4901.3   192.4    4926.0   193.3    4943.0   174.7    4981.6
GR   174.6   5000.0   174.6    5036.4   193.6    5075.7   193.9    5470.    194.5    5630.
GR   193.9   5930.    202.6    6500.    202.6    7160.    215.0    8000.

X1   264.0   35.0     4904.2   5063.3   180.     118.6    187.8
X3                             4904.2            5063.3
GR   186.6   2690.0   187.0    2727.0   181.8    2752.8   183.0    2897.3   216.9    3006.3
GR   217.1   3105.6   215.7    3123.2   216.9    3153.3   214.4    3227.1   203.9    3270.1
GR   201.3   3295.2   188.6    3328.7   188.0    3426.4   195.4    3465.1   191.5    3542.8
GR   184.1   3574.1   183.6    3611.9   189.6    3666.0   190.3    3708.8   186.2    3739.5
GR   187.6   3770.7   188.5    4264.8   194.9    4882.2   196.3    4904.2   178.9    4942.8
GR   174.0   4978.8   173.6    5000.0   173.9    5026.2   194.9    5063.3   194.6    5130.6
GR   194.5   5550.    193.9    5850.    202.6    6410.    202.6    7080.    215.0    7920.

NC                    .045
X1   266.0   36.0     4850.6   5059.2   260.     224.7    305.6
X3                             4850.6            5175.0
GR   182.7   2157.3   184.2    2199.1   217.3    2312.3   185.0    2384.2   187.6    2402.6
GR   187.6   2455.4   185.0    2469.6   184.7    2485.5   220.1    2552.9   218.1    2624.0
GR   212.4   2654.7   207.7    2740.1   186.1    2831.2   184.4    2947.2   185.4    3131.2
GR   188.8   3154.2   190.2    3215.4   191.3    3278.2   187.5    3310.5   186.5    3427.4
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GR   191.1    4307.6    195.2     4790.6    195.2     4819.2    197.1     4833.9    196.5     4850.6
GR   189.4    4882.6    180.7     4966.3    175.2     4983.4    175.2     5000.0    175.2     5031.0
GR   193.5    5059.2    195.1     5175.0    194.1     5820.     196.9     6150.     202.6     6700.
GR   215.0    7500.

X1   268.0    25.0      4945.5    5085.8    260.      371.4     314.2
X3                                4937.8                5085.8
GR   189.7    2271.4    189.5     2310.6    185.3     2336.5    189.4     3051.1    191.7     3171.0
GR   188.4    3195.9    189.8     3212.3    189.8     3251.1    188.1     3268.5    193.1     4388.3
GR   195.3    4833.3    195.7     4930.1    196.7     4937.8    195.5     4945.5    175.7     4978.1
GR   175.7    5000.0    175.7     5026.9    187.1     5060.2    195.3     5085.8    194.7     5171.3
GR   194.5    5400.     194.8     5700.     196.6     5900.     202.5     6200.     215.0     7350.

  End Left Levee Failure

X1   270.0    19.0      4892.5    5074.4    389.9     452.5         850.0
X3                                4892.5
GR   190.4    1627.5    190.4     1665.0    187.0     1692.6    188.4     1819.2    190.4     2396.0
GR   190.3    2437.7    188.9     2446.1    190.2     2467.8    191.1     3453.1    196.6     4562.4
GR   196.6    4892.5    190.9     4930.8    177.7     4964.8    177.7     5000.0    177.7     5049.6
GR   196.4    5074.4    195.1     5255.2    198.2     5356.4    215.0     6750.

X1   272.0    19.0      4953.2    5108.4    525.7     470.7         770.0
X3                                4953.2
GR   191.6    2493.1    191.7     2567.5    191.2     2575.0    194.4     3967.7    197.1     4953.2
GR   179.4    4987.7    179.4     5000.0    179.4     5015.7    188.2     5052.0    195.7     5069.2
GR   196.8    5091.5    198.8     5108.4    206.6     5655.4    216.6     6684.1    213.4     6745.1
GR   208.1    6806.6    209.0     7062.0    215.4     7079.4    214.7     7190.2

X1   274.0    22.0      4893.6    5052.1    350.      290.          810
X3                                4857.6
GR   192.1    1871.4    192.1     1917.4    191.4     1927.4    196.7     3547.0    199.8     4857.6
GR   198.8    4893.6    194.9     4916.8    191.9     4942.0    186.3     4970.8    179.6     4992.9
GR   179.6    5000.0    179.6     5016.5    209.2     5052.1    208.7     5104.3    220.6     6011.7
GR   221.2    6252.1    216.7     6319.7    214.3     6366.6    219.3     6376.5    218.3     6429.3
GR   219.9    6439.3    218.6     6479.8

X1   276.0    17.0      4898.4    5074.6    194.4     550.          520
X3                                4898.4
GR   191.1    1647.9    190.3     1729.0    190.9     1913.8    197.4     3476.9    200.5     4784.7
GR   200.7    4898.4    195.3     4942.1    187.4     4963.0    181.4     4985.1    181.4     5000.0
GR   181.4    5024.1    190.8     5053.9    215.5     5074.6    216.7     5164.1    230.8     6161.0
GR   233.7    6176.9    235.4     6276.6
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NC                      .035

       END CORPS OF ENGINEERS LEVEE

X1   278.0    18.0      4928.2    5054.5    638.9     882.2         1400
X3                                4810.8
GR   191.0    2846.7    191.8     2900.0    190.8     2917.4    200.0     4810.8    199.9     4928.2
GR   188.1    4961.0    183.6     4989.2    183.6     5000.0    183.6     5008.0    187.8     5029.3
GR   201.2    5054.5    202.2     5131.8    201.3     5480.4    200.1     5485.6    204.2     5500.8
GR   216.9    6137.1    228.8     6858.2    229.9     6930.1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1


CCHV=    0.100 CEHV=    0.300
1490 NH CARD USED
*SECNO 218.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     3087.6    5057.2  TYPE=      1  TARGET=     1969.600
   218.000     16.00    174.20      0.00    174.20    174.27      0.07      0.00       0.00    176.20
   11281.6    8612.8    2668.8       0.0    4558.2     935.5       0.0       0.0        0.0 100000.00
      0.00      1.89      2.85      0.00     0.050     0.065     0.000     0.000     158.20   3087.60
  0.000840      539.      704.      793.         0         0         0      0.00    1659.04   5049.35


1490 NH CARD USED
*SECNO 220.000

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.55


3470 ENCROACHMENT STATIONS=     3287.7    5089.1  TYPE=      1  TARGET=     1801.400
   220.000     15.71    175.01      0.00      0.00    175.18      0.18      0.88       0.03    179.60
    8398.0    3493.7    4904.3       0.0    1706.9    1209.2       0.0      79.3       23.9 100000.00
      0.07      2.05      4.06      0.00     0.050     0.065     0.000     0.000     159.30   3287.70
  0.001555      817.      833.      792.         2         0         0      0.00     879.51   5071.71


1490 NH CARD USED
*SECNO 222.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.57


3470 ENCROACHMENT STATIONS=     4909.6    5072.1  TYPE=      1  TARGET=      162.500
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  SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
  Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
  TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
  SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 222.000     16.18     176.58       0.00       0.00     177.46       0.88       2.06       0.21     181.00
  8398.0       0.0     8398.0       0.0        0.0      1114.0       0.0      117.6       33.4  100000.00
    0.10      0.00       7.54      0.00      0.000      0.065     0.000      0.000     160.40    4961.85
0.004797      857.       807.      704.          2          0         0       0.00      98.92    5060.77

1490 NH CARD USED
*SECNO 224.000

3470 ENCROACHMENT STATIONS=     4919.1    5064.6  TYPE=      1  TARGET=      145.500
 224.000     16.32     180.92       0.00       0.00     181.78       0.86       4.32       0.00     183.70
  8398.0       0.0     8398.0       0.0        0.0      1130.6       0.0      140.8       35.5  100000.00
    0.13      0.00       7.43      0.00      0.000      0.065     0.000      0.000     164.60    4953.96
0.004798     1117.       900.      417.          2          0         0       0.00     103.83    5057.79

*SECNO 226.000
3280 CROSS SECTION    226.00 EXTENDED      0.83 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

3470 ENCROACHMENT STATIONS=     4559.3    4691.7  TYPE=      1  TARGET=      132.400
 226.000     19.73     185.43       0.00       0.00     185.97       0.54       4.16       0.03     185.30
  8198.0       0.0     8198.0       0.0        0.1      1389.3       0.0      178.1       38.5  100000.00
    0.20      0.26       5.90      0.00      0.045      0.065     0.000      0.000     165.70    4589.65
0.002301      887.      1290.      400.          3          0         0       0.00     100.98    4690.62

CCHV=    0.300 CEHV=    0.500
*SECNO 228.000
3280 CROSS SECTION    228.00 EXTENDED      0.97 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3470 ENCROACHMENT STATIONS=     4882.3    4992.3  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

 228.000     18.87     185.87       0.00       0.00     186.16       0.29       0.11       0.08  100000.00
  8198.0       0.0     8198.0       0.0        0.0      1897.5       0.0      180.8       38.6  100000.00
    0.20      0.00       4.32      0.00      0.000      0.065     0.000      0.000     167.00    4882.27
0.001050       72.        72.       72.          2          0         0       0.00     107.09    4989.36
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	0.00	110.00	7.20	2200.00	0.00	167.00	167.00

*SECNO 230.000
3280 CROSS SECTION 230.00 EXTENDED 1.70 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.89

CLASS A LOW FLOW

3420 BRIDGE W.S.= 185.83 BRIDGE VELOCITY= 4.24 CALCULATED CHANNEL AREA= 1936.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
0.00	186.21	0.04	0.	8198.	2200.	2210.	188.50	191.50	0.

3470 ENCROACHMENT STATIONS= 4886.1 4996.1 TYPE= 1 TARGET= 110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 100000.00 ELREA= 190.30

NORTHBOUND HIGHWAY 101

230.000	18.30	185.90	0.00	0.00	186.21	0.31	0.05	0.00	100000.00
8198.0	0.0	8198.0	0.0	0.0	1849.2	0.0	183.3	38.8	190.30
0.20	0.00	4.43	0.00	0.000	0.016	0.000	0.000	167.60	4886.09
0.000069	58.	58.	58.	0	0	0	0.00	106.08	4992.17

*SECNO 232.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4957.7 5073.1 TYPE= 1 TARGET= 115.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 241.00 ELREA= 100000.00

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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

  232.000      17.54     185.94       0.00       0.00     186.22       0.28       0.01       0.01     241.00
   8198.0        0.0     8198.0        0.0        0.0     1928.8        0.0      186.6       39.0 100000.00
     0.21       0.00       4.25       0.00      0.000      0.016      0.000      0.000     168.40    4957.70
 0.000138        77.        77.        77.          2          0          0       0.00     110.01    5073.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      2.60       0.00    110.00      7.20   2200.00      0.00    168.40     168.40

*SECNO 240.000
3280 CROSS SECTION    240.00 EXTENDED      0.48 FEET

CLASS A LOW FLOW

3420 BRIDGE W.S.=     185.90 BRIDGE VELOCITY=       4.56     CALCULATED CHANNEL AREA=      1799.

 EGPRS      EGLWC       H3       QWEIR      QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                                  AREA
      0.00    186.40      0.04        0.     8198.     2200.     2066.     188.50    190.50        0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00


        SOUTHBOUND HIGHWAY 101
  240.000      17.48     185.98       0.00       0.00     186.40       0.42       0.18       0.00 100000.00
   8198.0        0.0     8198.0        0.0        0.0     1572.7        0.0      188.6       39.1 100000.00
     0.21       0.00       5.21       0.00      0.000      0.016      0.000      0.000     168.50    4886.09
 0.000108        48.        48.        48.          0          0          0       0.00     110.00    4996.09


*SECNO 242.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.16


3470 ENCROACHMENT STATIONS=     4814.0    5068.0  TYPE=      1  TARGET=      254.000
  242.000      16.90     185.80       0.00       0.00     186.63       0.83       0.02       0.20     185.00
   8198.0      111.2    8086.8        0.0       62.9     1100.0        0.0      190.8       39.3     186.90
     0.21       1.77       7.35       0.00      0.045      0.065      0.000      0.000     168.90    4814.00
 0.004309        72.        72.        72.          2          0          0       0.00     176.98    4990.98
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=    0.100 CEHV=    0.300
*SECNO 244.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.26


3470 ENCROACHMENT STATIONS=     4792.9    5042.2  TYPE=      1  TARGET=      249.300
   244.000     18.06    186.96      0.00       0.00    187.12      0.16       0.42       0.07    185.60
    8326.5       0.0    8326.5       0.0        0.0    2627.3       0.0      202.0       40.5 100000.00
      0.24      0.00      3.17      0.00      0.000     0.065     0.000      0.000     168.90   4792.90
  0.000867      137.      258.      410.          2         0         0       0.00     249.30   5042.20


*SECNO 246.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.43


3470 ENCROACHMENT STATIONS=     4943.3    5036.5  TYPE=      1  TARGET=       93.200
   246.000     17.85    187.15      0.00       0.00    187.91      0.75       0.61       0.18    187.50
    7646.3       0.0    7646.3       0.0        0.0    1097.2       0.0      218.6       42.0 100000.00
      0.25      0.00      6.97      0.00      0.000     0.065     0.000      0.000     169.30   4944.14
  0.003968      250.      390.      400.          2         0         0       0.00      92.31   5036.45


*SECNO 248.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.65


3470 ENCROACHMENT STATIONS=     4949.1    5420.0  TYPE=      1  TARGET=      470.900
   248.000     19.13    188.83      0.00       0.00    189.14      0.30       1.18       0.05    189.70
    7700.5       0.0    7313.2     387.3        0.0    1613.7     319.1      236.5       45.1    187.40
      0.29      0.00      4.53      1.21      0.000     0.065     0.045      0.000     169.70   4950.58
  0.001471      485.      523.      450.          2         0         0       0.00     469.42   5420.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 250.000

3470 ENCROACHMENT STATIONS=     4908.2    5082.1  TYPE=      1  TARGET=      173.900
   250.000     19.57     189.27      0.00       0.00    189.76      0.49       0.57       0.06     190.70
    7797.8       0.0     7794.7       3.2       0.0    1386.9       6.3      247.7       46.6     189.00
      0.30      0.00       5.62      0.50      0.000     0.060     0.045      0.000     169.70    4914.36
  0.002427      200.       310.      132.         2         0         0       0.00     167.73    5082.10

*SECNO 252.000

3470 ENCROACHMENT STATIONS=     4941.6    5056.5  TYPE=      1  TARGET=      114.900
   252.000     19.15     191.05      0.00       0.00    191.88      0.83       2.02       0.10     191.00
    7805.9       0.0     7805.9       0.0       0.1    1065.2       0.0      266.6       48.6 100000.00
      0.33      0.02       7.33      0.00     0.045     0.060     0.000      0.000     171.90    4961.69
  0.003841      145.       670.      640.         2         0         0       0.00      94.69    5056.38

*SECNO 254.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.87

3470 ENCROACHMENT STATIONS=     4713.3    5042.7  TYPE=      1  TARGET=      329.400
   254.000     20.57     192.57      0.00       0.00    192.92      0.35       0.99       0.05     191.10
    8474.0     526.3     7947.7       0.0     329.5    1622.3       0.0      283.5       51.0 100000.00
      0.35      1.60       4.90      0.00     0.045     0.060     0.000      0.000     172.00    4713.45
  0.001301      485.       488.      433.         2         0         0       0.00     328.79    5042.24

*SECNO 256.000

3470 ENCROACHMENT STATIONS=     4719.9    5032.6  TYPE=      1  TARGET=      312.700
   256.000     21.42     192.62      0.00       0.00    193.14      0.52       0.17       0.05     192.10
    8674.1     199.2     8474.9       0.0     187.0    1451.6       0.0      288.8       51.8 100000.00
      0.36      1.07       5.84      0.00     0.045     0.050     0.000      0.000     171.20    4719.90
  0.001266      106.       130.      140.         2         0         0       0.00     312.38    5032.28

*SECNO 258.000

3470 ENCROACHMENT STATIONS=     4940.7    5047.3  TYPE=      1  TARGET=      106.600
   258.000     18.75     192.75      0.00       0.00    193.40      0.65       0.22       0.04     193.10
    8674.1       0.0     8674.1       0.0       0.0    1341.8       0.0      293.8       52.5 100000.00
      0.37      0.00       6.46      0.00     0.000     0.050     0.000      0.000     174.00    4941.44
  0.001782      164.       147.      150.         3         0         0       0.00     104.52    5045.96
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 260.000

3470 ENCROACHMENT STATIONS=     4943.9    5063.9  TYPE=      1  TARGET=      120.000
   260.000     19.58    194.08      0.00       0.00    194.60      0.52       1.19       0.01     193.40
    9037.6       0.0    9037.6      0.0        0.0     1558.1      0.0       319.5       54.5 100000.00
      0.40      0.00      5.80      0.00      0.000     0.050     0.000      0.000     174.50    4943.90
  0.001360      550.      771.      533.          2         0         0       0.00     118.40    5062.30

*SECNO 262.000

3470 ENCROACHMENT STATIONS=     4943.0    5110.0  TYPE=      1  TARGET=      167.000
   262.000     20.24    194.84      0.00       0.00    195.32      0.48       0.71       0.00     193.30
   10914.2       0.0   10863.4      50.8       0.0     1948.1      41.9      343.8       56.5     193.60
      0.43      0.00      5.58      1.21      0.000     0.050     0.045      0.000     174.60    4943.00
  0.001080      450.      595.      654.          2         0         0       0.00     167.00    5110.00

*SECNO 264.000

3470 ENCROACHMENT STATIONS=     4904.2    5063.3  TYPE=      1  TARGET=      159.100
   264.000     21.55    195.15      0.00       0.00    195.50      0.35       0.16       0.01     196.30
   11232.2       0.0   11232.2      0.0        0.0     2378.9      0.0       353.1       57.2 100000.00
      0.45      0.00      4.72      0.00      0.000     0.050     0.000      0.000     173.60    4906.74
  0.000726      180.      188.      119.          2         0         0       0.00     156.56    5063.30

*SECNO 266.000

3470 ENCROACHMENT STATIONS=     4850.6    5175.0  TYPE=      1  TARGET=      324.400
   266.000     20.21    195.41      0.00       0.00    195.71      0.30       0.21       0.00     196.50
   11300.7       0.0   11183.1     117.6       0.0     2522.0     129.1      370.7       58.7     193.50
      0.46      0.00      4.43      0.91      0.000     0.045     0.045      0.000     175.20    4855.49
  0.000660      260.      306.      225.          2         0         0       0.00     319.51    5175.00

*SECNO 268.000

3470 ENCROACHMENT STATIONS=     4937.8    5085.8  TYPE=      1  TARGET=      148.000
   268.000     19.79    195.49      0.00       0.00    196.07      0.58       0.27       0.08     195.50
   11371.4       0.0   11371.4      0.0        0.0     1867.2      0.0       387.1       60.5 100000.00
      0.48      0.00      6.09      0.00      0.000     0.045     0.000      0.000     175.70    4945.52
  0.001170      260.      314.      371.          2         0         0       0.00     140.28    5085.80
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 270.000

3470 ENCROACHMENT STATIONS=     4892.5    6750.0  TYPE=      1  TARGET=    -4892.500
   270.000     18.81    196.51      0.00      0.00    196.87      0.36       0.78       0.02     196.60
   11454.9       0.0   11327.4     127.5       0.0    2351.3     170.8      429.1       64.8     196.40
      0.53      0.00      4.82      0.75     0.000     0.045     0.045      0.000     177.70    4893.08
  0.000746      390.      850.      453.         2         0         0       0.00     408.29    5301.36

*SECNO 272.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.49

3470 ENCROACHMENT STATIONS=     4953.2    7190.2  TYPE=      1  TARGET=    -4953.200
   272.000     17.66    197.06      0.00      0.00    198.12      1.06       1.04       0.21     197.10
   11454.9       0.0   11454.9       0.0       0.0    1387.1       0.0      463.1       68.8     198.80
      0.55      0.00      8.26      0.00     0.000     0.045     0.000      0.000     179.40    4953.26
  0.003148      526.      770.      471.         2         0         0       0.00     140.50    5093.76

*SECNO 274.000

3470 ENCROACHMENT STATIONS=     4857.6    6479.8  TYPE=      1  TARGET=    -4857.600
   274.000     19.84    199.44      0.00      0.00    200.26      0.82       2.12       0.02     198.80
   11454.9       5.2   11449.7       0.0       7.2    1578.5       0.0      490.7       71.6     209.20
      0.58      0.72      7.25      0.00     0.045     0.045     0.000      0.000     179.60    4870.80
  0.002204      350.      810.      290.         2         0         0       0.00     169.55    5040.35

*SECNO 276.000

3470 ENCROACHMENT STATIONS=     4898.4    6276.6  TYPE=      1  TARGET=    -4898.400
   276.000     19.20    200.60      0.00      0.00    201.18      0.57       0.89       0.02     200.70
   11454.9       0.0   11454.9       0.0       0.0    1887.3       0.0      511.4       73.5     215.50
      0.61      0.00      6.07      0.00     0.000     0.045     0.000      0.000     181.40    4899.15
  0.001381      194.      520.      550.         2         0         0       0.00     162.97    5062.12
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  SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
  Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
  TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
  SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 278.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=     4810.8    6930.1  TYPE=      1  TARGET=    -4810.800

       END CORPS OF ENGINEERS LEVEE

  278.000     18.59    202.19      0.00      0.00    203.24      1.05      1.92      0.14    199.90
  14400.0     548.2   13690.3     161.5     262.9    1623.8     206.8     571.8      83.4    201.20
     0.66      2.09      8.43      0.78     0.045     0.035     0.045     0.000    183.60   4810.80
 0.001395      639.     1400.      882.         2         0         0      0.00    677.58   5493.35
```

TN Sec 278 to 276 Left (Spill over SPRR)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1467.5	1.74	2.19	1.09	1400.0	1341.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2546.62	2546.73	0.00	2546.62	2546.73	0.00	35	200.604	202.188	276.000	278.000

TN Sec 278 to 276 Left (Return to Sec 218)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1467.5	0.27	2.19	1.09	1400.0	1341.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
398.53	398.54	0.00	2945.14	2945.27	0.00	35	200.604	202.188	276.000	278.000

TN Sec 276 to 274 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	520.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2945.14	2945.27	0.00	35	199.441	200.604	274.000	276.000

TN Sec 274 to 272 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	810.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2945.14	2945.27	0.00	35	197.058	199.441	272.000	274.000

TN Sec 272 to 270 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	770.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2945.14	2945.27	0.00	35	196.513	197.058	270.000	272.000

TW Sec 270 to 268 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2945.14	2945.27	0.00	35	195.490	196.513	268.000	270.000

TN Sec 270 to 268 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
105.8	0.79	0.19	0.15	700.0	700.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
83.46	83.50	0.05	3028.60	3028.77	0.01	35	195.490	196.513	268.000	270.000

TW Sec 268 to 266 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3028.60	3028.77	0.01	35	195.410	195.490	266.000	268.000

TN Sec 268 to 266 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
82.5	0.86	0.31	0.25	330.0	330.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
70.66	70.69	0.05	3099.26	3099.46	0.01	35	195.410	195.490	266.000	268.000

TW Sec 266 to 264 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3099.26	3099.46	0.01	35	195.151	195.410	264.000	266.000

TN Sec 266 to 264 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
88.4	0.77	0.31	0.28	315.0	315.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
68.58	68.47	0.17	3167.84	3167.93	0.00	35	195.151	195.410	264.000	266.000

TW Sec 264 to 262 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
288.58	288.63	0.02	3456.42	3456.56	0.00	35	194.839	195.151	262.000	264.000

TN Sec 264 to 262 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
35.4	0.83	0.34	0.29	120.0	120.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
29.35	29.40	0.16	3485.77	3485.96	0.01	35	194.839	195.151	262.000	264.000

TW Sec 262 to 260 Left (Return to Sec 218)

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
964.82	965.03	0.02	4450.59	4450.99	0.01	35	194.081	194.839	260.000	262.000

TW Sec 262 to 260 Left (Return to Sec 244)

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
893.35	893.54	0.02	5343.94	5344.53	0.01	35	194.081	194.839	260.000	262.000

TN Sec 262 to 260 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
30.4	0.61	0.34	0.17	560.0	179.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
18.44	18.45	0.05	5362.38	5362.98	0.01	35	194.081	194.839	260.000	262.000

TW Sec 260 to 258 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
363.54	363.24	0.08	5725.93	5726.22	0.01	35	192.750	194.081	258.000	260.000

TW Sec 260 to 258 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5725.93	5726.22	0.01	35	192.750	194.081	258.000	260.000

TW Sec 258 to 256 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5725.93	5726.22	0.01	35	192.622	192.750	256.000	258.000

TW Sec 258 to 256 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5725.93	5726.22	0.01	35	192.622	192.750	256.000	258.000

TW Sec 256 to 254 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
200.04	199.90	0.07	5925.97	5926.12	0.00	35	192.572	192.622	254.000	256.000

TW Sec 256 to 254 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5925.97	5926.12	0.00	35	192.572	192.622	254.000	256.000

TW Sec 254 to 252 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
668.12	668.17	0.01	6594.09	6594.29	0.00	35	191.049	192.572	252.000	254.000

TW Sec 254 to 252 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6594.09	6594.29	0.00	35	191.049	192.572	252.000	254.000

TW Sec 252 to 250 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6594.09	6594.29	0.00	35	189.270	191.049	250.000	252.000

TW Sec 252 to 250 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
8.07	8.02	0.63	6602.16	6602.31	0.00	35	189.270	191.049	250.000	252.000

TW Sec 250 to 248 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6602.16	6602.31	0.00	35	188.831	189.270	248.000	250.000

TW Sec 250 to 248 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
97.33	97.35	0.02	6699.49	6699.66	0.00	35	188.831	189.270	248.000	250.000

TW Sec 248 to 246 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6699.49	6699.66	0.00	35	187.153	188.831	246.000	248.000

TN Sec 248 to 246 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
74.8	0.72	0.43	0.22	385.0	347.2

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
54.25	54.03	0.40	6753.74	6753.69	0.00	35	187.153	188.831	246.000	248.000

TW Sec 246 to 244 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6753.74	6753.69	0.00	35	186.964	187.153	244.000	246.000

TN Sec 246 to 244 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
163.8	1.30	0.86	0.43	400.0	379.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
213.15	213.02	0.06	6966.88	6966.71	0.00	35	186.964	187.153	244.000	246.000

TW Sec 244 to 242 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6966.88	6966.71	0.00	35	185.801	186.964	242.000	244.000

TW Sec 244 to 242 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
128.47	128.55	0.06	7095.35	7095.27	0.00	35	185.801	186.964	242.000	244.000

TW Sec 242 to 240 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	185.981	185.801	240.000	242.000

TN Sec 228 to 226 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	71.7	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	185.433	185.866	226.000	228.000

TW Sec 228 to 226 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	185.433	185.866	226.000	228.000

TN Sec 226 to 224 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	950.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	180.922	185.433	224.000	226.000

TW Sec 226 to 224 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	180.922	185.433	224.000	226.000

TN Sec 224 to 222 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	900.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	176.576	180.922	222.000	224.000

TW Sec 224 to 222 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	176.576	180.922	222.000	224.000

TN Sec 222 to 220 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	790.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	175.007	176.576	220.000	222.000

TW Sec 222 to 220 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7095.35	7095.27	0.00	35	175.007	176.576	220.000	222.000

THIS RUN EXECUTED 30APR96 10:44:18

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 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS - CASE 2

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	218.000	0.00	0.00	0.00	158.20	11281.62	174.20	0.00	174.27	8.40	2.85	5493.70	3893.30
*	220.000	832.90	0.00	0.00	159.30	8398.00	175.01	0.00	175.18	15.55	4.06	2916.09	2129.78
*	222.000	806.70	0.00	0.00	160.40	8398.00	176.58	0.00	177.46	47.97	7.54	1113.98	1212.50
	224.000	900.00	0.00	0.00	164.60	8398.00	180.92	0.00	181.78	47.98	7.43	1130.57	1212.41
*	226.000	1290.00	0.00	0.00	165.70	8198.00	185.43	0.00	185.97	23.01	5.90	1389.45	1709.09
*	228.000	71.70	0.00	0.00	167.00	8198.00	185.87	0.00	186.16	10.50	4.32	1897.51	2530.01
*	230.000	58.00	191.50	188.50	167.60	8198.00	185.90	0.00	186.21	0.69	4.43	1849.24	9842.15
	232.000	77.00	0.00	0.00	168.40	8198.00	185.94	0.00	186.22	1.38	4.25	1928.82	6990.77
	240.000	47.70	190.50	188.50	168.50	8198.00	185.98	0.00	186.40	1.08	5.21	1572.70	7871.11
*	242.000	72.20	0.00	0.00	168.90	8198.00	185.80	0.00	186.63	43.09	7.35	1162.82	1248.83
*	244.000	258.20	0.00	0.00	168.90	8326.47	186.96	0.00	187.12	8.67	3.17	2627.33	2828.20
*	246.000	389.50	0.00	0.00	169.30	7646.26	187.15	0.00	187.91	39.68	6.97	1097.19	1213.88
*	248.000	523.10	0.00	0.00	169.70	7700.51	188.83	0.00	189.14	14.71	4.53	1932.81	2007.90
	250.000	310.20	0.00	0.00	169.70	7797.84	189.27	0.00	189.76	24.27	5.62	1393.19	1582.91
	252.000	670.00	0.00	0.00	171.90	7805.91	191.05	0.00	191.88	38.41	7.33	1065.30	1259.50
*	254.000	488.20	0.00	0.00	172.00	8474.03	192.57	0.00	192.92	13.01	4.90	1951.80	2349.28
	256.000	130.40	0.00	0.00	171.20	8674.07	192.62	0.00	193.14	12.66	5.84	1638.60	2437.48

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	258.000	147.30	0.00	0.00	174.00	8674.07	192.75	0.00	193.40	17.82	6.46	1341.80	2054.84
	260.000	771.20	0.00	0.00	174.50	9037.62	194.08	0.00	194.60	13.60	5.80	1558.11	2450.34
	262.000	595.20	0.00	0.00	174.60	10914.23	194.84	0.00	195.32	10.80	5.58	1990.05	3320.86
	264.000	187.80	0.00	0.00	173.60	11232.16	195.15	0.00	195.50	7.26	4.72	2378.95	4168.85
	266.000	305.60	0.00	0.00	175.20	11300.74	195.41	0.00	195.71	6.60	4.43	2651.17	4398.57
	268.000	314.20	0.00	0.00	175.70	11371.40	195.49	0.00	196.07	11.70	6.09	1867.20	3324.04
	270.000	850.00	0.00	0.00	177.70	11454.86	196.51	0.00	196.87	7.46	4.82	2522.12	4194.42
*	272.000	770.00	0.00	0.00	179.40	11454.86	197.06	0.00	198.12	31.48	8.26	1387.05	2041.51
	274.000	810.00	0.00	0.00	179.60	11454.86	199.44	0.00	200.26	22.04	7.25	1585.69	2440.20
	276.000	520.00	0.00	0.00	181.40	11454.86	200.60	0.00	201.18	13.81	6.07	1887.31	3082.96
	278.000	1400.00	0.00	0.00	183.60	14400.00	202.19	0.00	203.24	13.95	8.43	2093.57	3855.73

LOWER UVAS - CASE 2

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	218.000	11281.62	174.20	0.00	0.00	0.00	1659.04	0.00
*	220.000	8398.00	175.01	0.00	0.81	0.00	879.51	832.90
*	222.000	8398.00	176.58	0.00	1.57	0.00	98.92	806.70
	224.000	8398.00	180.92	0.00	4.35	0.00	103.83	900.00
*	226.000	8198.00	185.43	0.00	4.51	0.00	100.98	1290.00
*	228.000	8198.00	185.87	0.00	0.43	0.00	107.09	71.70
*	230.000	8198.00	185.90	0.00	0.04	0.00	106.08	58.00
	232.000	8198.00	185.94	0.00	0.04	0.00	110.01	77.00
	240.000	8198.00	185.98	0.00	0.04	0.00	110.00	47.70
*	242.000	8198.00	185.80	0.00	-0.18	0.00	176.98	72.20
*	244.000	8326.47	186.96	0.00	1.16	0.00	249.30	258.20
*	246.000	7646.26	187.15	0.00	0.19	0.00	92.31	389.50
*	248.000	7700.51	188.83	0.00	1.68	0.00	469.42	523.10
	250.000	7797.84	189.27	0.00	0.44	0.00	167.73	310.20
	252.000	7805.91	191.05	0.00	1.78	0.00	94.69	670.00
*	254.000	8474.03	192.57	0.00	1.52	0.00	328.79	488.20
	256.000	8674.07	192.62	0.00	0.05	0.00	312.38	130.40
	258.000	8674.07	192.75	0.00	0.13	0.00	104.52	147.30
	260.000	9037.62	194.08	0.00	1.33	0.00	118.40	771.20
	262.000	10914.23	194.84	0.00	0.76	0.00	167.00	595.20
	264.000	11232.16	195.15	0.00	0.31	0.00	156.56	187.80
	266.000	11300.74	195.41	0.00	0.26	0.00	319.51	305.60
	268.000	11371.40	195.49	0.00	0.08	0.00	140.28	314.20
	270.000	11454.86	196.51	0.00	1.02	0.00	408.29	850.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	272.000	11454.86	197.06	0.00	0.55	0.00	140.50	770.00
	274.000	11454.86	199.44	0.00	2.38	0.00	169.55	810.00
	276.000	11454.86	200.60	0.00	1.16	0.00	162.97	520.00
	278.000	14400.00	202.19	0.00	1.58	0.00	677.58	1400.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    220.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    222.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    226.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    228.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    230.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    242.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    244.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    248.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    254.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    272.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: case3a.HC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    30APR96    TIME   10:44:25 *
*******************************************
```

```
***************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
***************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                       :::
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:::::::::::::::::::::::::::::::::::::::::::::
```

```
============================
H A E S T A  D   M E T H O D S
============================
```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

```
                                                                    THIS RUN EXECUTED 30APR96    10:44:25
*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************


SPLIT FLOW BEING PERFORMED


SF      MODEL SPILL FROM PERCHED CHANNEL FAILING UPPER LEFT LEVEE


JC      LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.            40.     -1.     46.

TN  Sec 278 to 276 Left
NS2.    276.    278.    -1.     .045    .00331
NG0.    200.7       1400.200.0

TN  Sec 276 to 274 Left
NS2.    274.    276.    -1.     .045    .00206
NG0.    199.8       520.200.7

TN  Sec 274 to 272 Left
NS2.    272.    274.    -1.     .045    .00255
NG0.    197.1       810.199.8

TN  Sec 272 to 270 Left
NS2.    270.    272.    -1.     .045    .00385
NG0.    196.6       770.197.1

TN  Sec 270 to 268 Left (LEVEE FAILS)
NS2.    268.    270.    -1.     .045    .0045
NG0.    195.7       850.196.6

TN  Sec 270 to 268 Right
NS2.    268.    270.    -1.     .045    .00710
NG0.    195.3       850.196.4

TN  Sec 268 to 266 Left (LEVEE FAILS)
NS2.    266.    268.    -1.     .045    .0063
NG0.    195.2   285.    195.7

TN  Sec 268 to 266 Right
NS2.    266.    268.    -1.     .045    .00428
NG0.    195.1   330.    195.3
```

```
TN  Sec 266 to 264 Left (LEVEE FAILS)
NS2.    264.    266.    -1.     .045    .0094
NG0.    194.9   275.    195.2

TN  Sec 266 to 264 Right
NS2.    264.    266.    -1.     .045    .003
NG0.    194.9   315.    195.1

TN  Sec 264 to 262 Left (LEVEE FAILS)
NS2.    262.    264.    -1.     .045    .0093
NG0.    192.4   254.    194.9

TN  Sec 264 to 262 Right
NS2.    262.    264.    -1.     .045    .00323
NG0.    194.5   120.    194.9

TN  Sec 262 to 260 Left (LEVEE FAILS)
NS2.    260.    262.    244.    .045    .0081
NG0.    193.2   600.    192.4

TN  Sec 262 to 260 Right
NS2.    260.    262.    -1.     .045    .00361
NG0.    194.8   560.    194.5

TN  Sec 260 to 258 Left (LEVEE FAILS)
NS2.    258.    260.    -1.     .045    .0060
NG0.    192.3   940.    193.2

TW  Sec 260 to 258 Right
WS2.    258.    260.    -1.     2.6
WC0.    193.7   860.    194.8

TN  Sec 258 to 256 Left (LEVEE FAILS)
NS2.    256.    258.    -1.     .045    .0027
NG0.    191.4   164.    192.3

TW  Sec 258 to 256 Right
WS2.    256.    258.    -1.     2.6
WC0.    193.0   150.    193.7

TN  Sec 256 to 254 Left (LEVEE FAILS)
NS2.    254.    256.    -1.     .045    .0011
NG0.    191.1   106.    191.4

TW  Sec 256 to 254 Right
WS2.    254.    256.    -1.     2.6
WC0.    193.0   130.    193.0

TN  Sec 254 to 252 Left (LEVEE FAILS)
NS2.    252.    254.    -1.     .045    .0027
NG0.    190.8   470.    191.1
```

```
TW  Sec 254 to 252 Right
WS2.    252.    254.    -1.     2.6
WC0.    191.1   470.    193.0

TN  Sec 252 to 250 Left (LEVEE FAILS)
NS2.    250.    252.    -1.     .045    .0038
NG0.    189.9       670.190.8

TW  Sec 252 to 250 Right
WS2.    250.    252.    -1.     2.6
WC0.    189.2       670.191.1

TN  Sec 250 to 248 Left (LEVEE FAILS)
NS2.    248.    250.    -1.     .045    .0000
NG0.    187.8   350.    189.9

TW  Sec 250 to 248 Right
WS2.    248.    250.    -1.     2.6
WC0.    188.4   280.    189.2

TN  Sec 248 to 246 Left (LEVEE FAILS)
NS2.    246.    248.    -1.     .045    .0000
NG0.    187.5   450.    187.8

TN  Sec 248 to 246 Right
NS2.    246.    248.    -1.     .045    .00370
NG0.    187.2   385.    188.4

TN  Sec 246 to 244 Right
NS2.    244.    246.    -1.     .045    .00475
NG0.    186.1   400.    187.2

TW  Sec 244 to 242 Right
WS2.    242.    244.    -1.     2.6
WC0.    186.9   350.    186.1

TW  Sec 242 to 240 Right
WS2.    240.    242.    -1.     2.6
WC0.    187.5   72.2    186.9

TW  Sec 228 to 226 Left
WS2.    226.    228.    -1.     2.6
WC0.    187.4   71.7    190.4

TW  Sec 228 to 226 Right
WS2.    226.    228.    -1.     2.6
WC0.    186.3   71.7    191.0

TW  Sec 226 to 224 Left
WS2.    224.    226.    -1.     2.6
WC0.    186.4   950.    187.4
```

```
TW  Sec 226 to 224 Right
WS2.    224.    226.    -1.     2.6
WC0.    183.7   1200.   186.3

TW  Sec 224 to 222 Left
WS2.    222.    224.    -1.     2.6
WC0.    183.2       900.186.4

TW  Sec 224 to 222 Right
WS2.    222.    224.    -1.     2.6
WC0.    181.8       900.183.7

TW  Sec 222 to 220 Left
WS2.    220.    222.    -1.     2.6
WC0.    180.9   790.    183.2

TW  Sec 222 to 220 Right
WS2.    220.    222.    -1.     2.6
WC0.    180.3   807.    181.8

TW  Sec 220 to 218 Left
WS2.    218.    220.    -1.     2.6
WC0.    178.6   800.    180.9

TW  Sec 220 to 218 Right
WS2.    218.    220.    -1.     2.6
WC0.    177.4   720.    180.3

TW  Sec 218 to 216 Left
WS2.    216.    218.    -1.     2.6
WC0.    175.6   700.    178.6

TW  Sec 218 to 216 Right
WS2.    216.    218.    -1.     2.6
WC0.    177.2   770.    177.4

TW  Sec 216 to 214 Left
WS2.    214.    216.    -1.     2.6
WC0.    176.1   660.    175.6

TW  Sec 216 to 214 Right
WS2.    214.    216.    -1.     2.6
WC0.    173.5   790.    177.2

TW  Sec 214 to 212 Left
WS2.    212.    214.    -1.     2.6
WC0.    177.8   190.    176.1

TW  Sec 214 to 212 Right
WS2.    212.    214.    -1.     2.6
WC0.    173.9   190.    173.5
```

```
TW  Sec 212 to 210 Left
WS2.    210.    212.    -1.     2.6
WC0.    178.2   94.5    177.8

TW  Sec 212 to 210 Right
WS2.    210.    212.    -1.     2.6
WC0.    176.6   65.3    173.9

TW  Sec 208 to 206 Left
WS2.    206.    208.    -1.     2.6
WC0.    177.5   50.     178.1

TW  Sec 208 to 206 Right
WS2.    206.    208.    -1.     2.6
WC0.    175.5   50.     173.0

TW  Sec 206 to 204 Left
WS2.    204.    206.    -1.     2.6
WC0.    174.6   460.    177.5

TW  Sec 206 to 204 Right
WS2.    204.    206.    -1.     2.6
WC0.    174.1   480.    175.5

TW  Sec 204 to 202 Left
WS2.    202.    204.    -1.     2.6
WC0.    173.1   469.5   174.6

TW  Sec 204 to 202 Right
WS2.    202.    204.    -1.     2.6
WC0.    173.3   540.8   174.1

TW  Sec 202 to 200 Left
WS2.    200.    202.    -1.     2.6
WC0.    171.0   510.2   173.1

TW  Sec 202 to 200 Right
WS2.    200.    202.    -1.     2.6
WC0.    172.0   545.2   173.3
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( djs)  April 1992
T3      LOWER UVAS - CASE 3     CASE 3: FAIL LEFT ABOVE 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.              -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Normal Depth 1500 Feet D/S of Study Limit (SPRR)


NC   .05      .07       .065      .1        .3
QT   1.       14600.
X1   200.0    23.0      4948.8    5045.8
X3                                4861.0                  5045.8
GR   158.0    3750.0    159.2     3898.9    165.7     3917.1    165.7     3929.1    160.1     3949.3
GR   168.7    4850.4    171.0     4861.0    170.6     4948.8    161.0     4972.3    150.2     4990.5
GR   150.2    4990.5    150.2     5000.0    150.2     5014.0    172.0     5045.8    171.0     5088.4
GR   169.4    5094.4    168.3     5315.9    167.6     5541.2    166.0     5548.1    164.9     6037.9
GR   159.0    6978.6    159.9     6990.7    159.4     7051.0


X1   202.0    19.0      4958.4    5048.5    510.2     545.2     521.9
X3                                4924.1              5048.5
GR   157.3    3450.2    158.8     3703.8    165.7     3722.0    165.6     3734.5    160.3     3755.0
GR   170.4    4845.9    171.2     4918.2    173.1     4924.1    172.0     4958.4    150.5     4988.3
GR   150.5    5000.0    150.5     5014.2    173.3     5048.5    171.7     5146.8    168.6     5687.6
GR   166.4    6120.4    159.9     7113.1    161.7     7140.5    161.8     7197.2


NC   .045
X1   204.0    17.0      4937.6    5030.1    469.5     540.8     516.3
X3                                4937.6              5030.1
GR   158.4    3257.4    159.6     3438.6    165.4     3453.2    165.4     3471.1    161.2     3490.2
GR   171.3    4884.9    174.4     4905.8    174.6     4937.6    163.2     4967.4    152.5     4988.1
GR   152.5    5000.0    152.5     5010.9    174.1     5030.1    173.9     5065.6    171.7     5077.5
GR   170.4    5511.5    164.9     6535.9

  Expanded Flow D/S of SPRR Bridge
```

```
X1   206.0    18.0       4927.5     5064.5     679.7      320.       480.7
X3                                  4901.1                5126.4
GR   160.7    3087.4     161.1      3116.1     166.2      3133.2     166.0      3149.4     162.5      3164.4
GR   171.8    4885.4     177.5      4901.1     175.9      4927.5     161.8      4953.3     153.7      4983.2
GR   153.7    5000.0     153.7      5031.8     167.0      5064.5     175.2      5101.8     175.5      5126.4
GR   172.8    5180.2     168.9      6080.1     162.6      7151.8

  D/S SPRR Bridge

NC                                  .3         .5
X1   208.0    13.0       4962.9     5038.1     50.        50.        50.
X3   10.                            4962.9                5038.1
GR   165.7    4068.7     172.2      4879.7     178.1      4911.4     175.7      4962.9     158.3      4963.0
GR   158.3    5000.0     158.3      5038.0     171.0      5038.1     173.0      5151.9     170.2      5667.3
GR   168.9    6072.1     169.1      6444.9     163.6      7128.3

NC   .02      .02        .016

  SPRR Bridge

SB   0.9      1.56       2.6                   75.        6.         1173.      0.

        SPRR

X1   210.0    14.0       4962.9     5038.1     45.4       45.4       45.4
X2                       1.         175.3      177.8                           1.33
X3   10.                            4962.9                5038.1
BT   -14.0    4142.1     175.5      165.0      4856.7     178.4      172.4      4914.7     178.4      178.2
BT            4961.5     178.4      178.0      4962.9     178.4      177.9      4963.0     180.3      175.3
BT            5000.0     180.3      175.3      5038.0     180.3      175.3      5038.1     178.3      176.5
BT            5055.1     178.2      157.8      5055.2     178.2      176.6      5376.9     177.1      173.3
BT            5923.4     174.8      170.6      6100.7     173.9      170.3
GR   165.0    4142.1     172.4      4856.7     178.2      4914.7     178.0      4961.5     177.9      4962.9
GR   158.3    4963.      158.3      5000.0     158.3      5038.0     175.3      5038.1     176.5      5055.1
GR   176.6    5055.2     173.3      5376.9     170.6      5923.4     170.3      6100.7

  U/S SPRR Bridge

  Begin Failure of Left Levee

NC   .045     .045       .065
X1   212.0    27.0       4975.5     5051.8     94.5       65.3       65.3
X3                                  4916.4                5051.8
GR   166.2    3623.2     172.2      4896.8     177.8      4916.4     177.1      4950.1     174.4      4975.5
GR   156.4    4986.7     156.4      5000.0     156.4      5012.9     173.9      5051.8     173.6      5069.2
GR   171.3    5079.6     169.6      5807.2     168.5      6001.4     166.9      7709.7     166.4      8569.6
GR   167.1    8588.8     167.5      8628.9     167.1      8648.2     170.3      8664.8     168.3      8748.1
GR   164.0    8769.9     165.4      8796.4     164.       9293.      159.7      9298.      159.7      9308.
GR   164.7    9313.4     180.0      9433.
```

```
NC                                  .1          .3

X1   214.0    27.0      4979.1    5051.4      170.8       700.        191.8
X3                                4928.                   5051.4
GR   171.0    3387.3    170.7     3420.4      165.9       3449.1      169.7       4461.4      170.8       4736.3
GR   172.4    4744.8    176.1     4928.0      175.1       4979.1      157.6       4986.9      157.6       5000.0
GR   157.6    5016.6    173.5     5051.4      171.3       5204.6      173.6       6737.9      169.7       7956.9
GR   169.3    7981.8    168.2     8000.8      173.1       8033.5      172.0       8069.2      167.5       8091.8
GR   166.7    8833.0    164.4     9176.9      159.4       9181.9      159.4       9191.9      164.4       9201.9
GR   165.     9210.     180.      9300.

NH   4.       .045      4927.8    .065        5026.0      .05         7184.5      .045        9183.
X1   216.0    30.0      4927.8    5026.0      377.4       490.        647.6
X3                                4927.8                  5026.0
GR   173.5    3096.6    172.5     3131.8      167.1       3148.7      169.0       3648.8      172.3       4651.7
GR   173.9    4663.3    175.6     4927.8      157.7       4989.0      157.7       5000.0      157.7       5009.3
GR   177.2    5026.0    176.1     5066.4      174.8       5210.7      173.3       6136.0      174.1       7146.0
GR   173.6    7165.9    175.0     7184.5      174.6       7216.0      173.1       7226.2      173.1       7239.9
GR   175.4    7253.5    174.8     7289.2      170.8       7307.6      172.8       7320.4      168.4       7900.4
GR   166.1    8897.1    164.0     8912.1      165.9       8956.8      171.0       9033.0      180.        9183.

NH   4.       .05       4945.7    .065        5057.2      .05         7079.8      .045        9325.7
X1   218.0    29.0      4945.7    5057.2      538.6       793.3       703.9
X3                                4918.7                  5057.2
GR   174.1    3087.6    172.7     3113.6      169.9       3122.2      169.1       3188.5      172.7       4406.6
GR   175.2    4809.1    176.2     4910.9      178.6       4918.7      178.0       4945.7      158.2       4991.7
GR   158.2    5000.0    158.2     5010.1      177.4       5057.2      176.3       5200.9      175.7       6505.5
GR   178.3    6943.2    178.3     6977.0      177.0       6986.2      177.0       6998.7      178.7       7013.2
GR   177.6    7063.5    174.3     7068.4      176.9       7079.8      169.9       8384.5      169.4       9192.3
GR   167.7    9197.5    169.9     9207.7      170.2       9250.9      191.9       9325.7

NH   4.       .05       4939.8    .065        5089.1      .12         6776.6      .045        9648.2
X1   220.0    28.0      4939.8    5089.1      817.4       792.2       832.9
X3                                4859.5                  5089.1
GR   174.3    3242.6    174.3     3282.7      169.3       3310.5      170.7       3324.3      179.6       4815.6
GR   180.9    4859.5    179.9     4939.8      159.3       4987.3      159.3       5000.0      159.3       5020.1
GR   180.3    5089.1    177.8     5755.7      180.1       6769.5      181.5       6776.6      181.5       6801.1
GR   179.5    6817.7    179.4     6827.1      182.0       6849.6      181.6       6884.0      178.0       6905.4
GR   179.8    6916.3    172.6     8522.3      174.3       9384.1      170.3       9396.8      170.3       9400.3
GR   174.2    9406.0    186.4     9458.5      195.4       9648.2

NH   4.       .05       4955.0    .065        5072.1      .12         6451.3      .045        9633.8
X1   222.0    28.0      4955.0    5072.1      857.3       703.5       806.7
X3                                4909.6                  5072.1
GR   174.6    3268.0    174.6     3297.7      171.2       3312.3      176.8       4408.9      181.0       4902.0
GR   183.2    4909.6    182.9     4955.0      160.4       4986.9      160.4       5000.0      160.4       5025.7
GR   181.8    5072.1    180.9     5247.9      182.4       6451.3      182.4       6475.6      183.8       6489.5
GR   183.7    6528.2    181.9     6567.0      181.4       6795.3      180.0       6799.5      175.2       8299.1
GR   176.0    8967.4    174.9     8975.3      176.6       8982.3      183.6       9492.3      199.1       9524.3
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GR   198.7    9569.8     201.3      9587.2      201.5       9633.8

NH   5.       .05        4251.3     .045        4949.0      .065        5064.6      .12         6351.3      .045
NH   9467.
X1   224.0    28.0       4949.0     5064.6      1117.2      416.9          900.0
X3                                  4919.1                  5064.6
GR   178.5    3010.0     178.5      3034.0      174.3       3052.8      178.9       4251.3      182.0       4815.1
GR   183.7    4907.2     186.4      4919.1      185.4       4949.0      164.6       4983.1      164.6       5000.0
GR   164.6    5017.8     183.7      5064.6      183.3       5241.1      183.4       6242.7      183.4       6310.1
GR   181.7    6325.2     184.7      6351.3      183.3       6386.9      181.2       6404.2      176.3       7944.5
GR   177.0    8800.6     175.9      8808.5      177.6       8815.5      184.6       9325.5      199.1       9357.5
GR   198.7    9403.0     201.3      9420.4      201.5       9467.0

  D/S Highway 101

NC   .045     .05        .065
QT   1.       14400.
X1   226.0    20.0       4945.5     5060.4      887.0       400.           1290.    .87
X3                                  4559.28                 4691.68
GR   178.4    2224.1     178.7      2251.1      175.2       2267.7      178.0       3416.3      179.1       3518.1
GR   175.2    3601.8     177.5      3609.1      182.3       4401.4      184.9       4591.6      186.8       4722.8
GR   187.4    4908.2     185.3      4945.5      165.7       4983.6      165.7       5000.0      165.7       5031.5
GR   186.3    5060.4     177.5      5116.9      176.7       5233.8      185.6       5288.4      184.6       5685.8

  D/S Face Northbound Highway 101 Bridge
  End Levee Failure

NC                                  .3          .5
X1   228.0    9.0        4946.5     5080.5      71.7         71.7        71.7        .87
X3   10.                            4882.27                 4992.27
GR   186.2    4405.9     188.9      4893.6      190.4       4946.5      167.0       4955.2      167.0       5000.0
GR   167.0    5062.0     191.0      5080.5      186.7       5358.9      184.9       5717.5

  U/S Face Northbound Highway 101 Bridge

NC   .02      .02        .016
SB   1.25     1.56       2.6                    110.        7.2         2200.       0.

        NORTHBOUND HIGHWAY 101

X1   230.0    13.0       4942.7     5078.2      58.         58.         58.         .87
X2                       1.         188.5       191.5                               2.0         .87
X3   10.                            4886.09                 4996.09
BT   -13.0    4435.3     185.8      184.1       4492.3      186.4       184.6       4885.5      190.7       190.2
BT            4942.7     191.5      191.3       4942.8      191.5       188.5       4954.0      191.7       188.5
BT            5000.0     192.4      188.5       5063.8      191.8       188.5       5078.1      191.6       188.5
BT            5078.2     191.6      190.3       5314.8      189.2       187.8       5762.1      185.2       185.0
BT            5764.5     185.2      184.2
GR   184.1    4435.3     184.6      4492.3      190.2       4885.5      191.3       4942.7      191.2       4942.8
GR   167.6    4954.0     167.6      5000.0      167.6       5063.8      190.2       5078.1      190.3       5078.2
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GR   187.8    5314.8     185.0      5762.1      184.2       5764.5

  D/S Face Southbound Highway 101 Bridge

X1   232.     17.        4957.7     5073.1      77.         77.         77.
X3   10.                            4957.7                  5073.1
GR   191.0    4957.7     168.4      4957.71     168.4       4983.7      188.5       4983.71     188.5       4985.5
GR   168.4    4985.6     168.4      5000.       168.4       5014.5      188.5       5014.51     188.5       5016.3
GR   168.4    5016.31    168.4      5045.3      188.5       5045.31     188.5       5047.1      168.4       5047.11
GR   168.4    5073.1     191.0      5073.11

  U/S Face Southbound Highway 101 Bridge

SB   1.25     1.56       2.6                    110.        7.2         2200.       0.

        SOUTHBOUND HIGHWAY 101
X1   240.0    12.0       4931.6     5079.6      47.7        47.7        47.7        .87
X2                       1.         188.5       190.5                               2.0         .87
X3   10.                            4886.09                 4996.09
BT   -12.0    4493.2     184.7      183.7       4515.7      185.0       184.9       4856.7      189.7       186.9
BT            4931.6     190.5      183.8       4931.7      190.5       188.5       4965.2      190.7       188.5
BT            5000.0     191.0      188.5       5031.8      190.8       188.5       5079.5      190.4       188.5
BT            5079.6     190.4      187.5       5294.9      188.9       187.6       5762.4      186.1       185.5
GR   183.7    4493.2     184.9      4515.7      186.9       4856.7      183.8       4931.6      183.7       4931.7
GR   168.5    4965.2     168.5      5000.0      168.5       5031.8      187.4       5079.5      187.5       5079.6
GR   187.6    5294.9     185.5      5762.4

  U/S Highway 101

NC   .045     .045       .065
X1   242.0    19.0       4951.8     5060.3      72.2        72.2        72.2        .87
X3                                  4814.                   5068.
GR   185.5    4542.3     185.0      4951.8      168.9       4980.9      168.9       5000.0      168.9       5022.9
GR   186.9    5060.3     186.1      5272.0      184.3       5319.5      183.4       5558.0      180.6       6660.6
GR   178.9    7856.7     178.7      8458.8      176.6       8465.2      176.5       8469.8      179.8       8477.2
GR   185.3    8534.1     200.0      8589.0      200.1       8616.4      198.6       8720.0

NC                                  .1          .3
X1   244.0    22.0       4792.9     5042.2      137.0       410.        258.2
X3                                  4792.9                  5042.2
GR   186.3    4442.5     186.5      4473.1      185.2       4483.0      186.3       4495.2      186.3       4527.3
GR   185.6    4597.7     185.6      4792.9      168.9       4989.2      168.9       5000.0      168.9       5014.8
GR   186.1    5042.2     185.3      5231.4      182.7       6563.8      181.0       7390.       179.6       7610.
GR   182.9    7626.      185.7      7818.4      193.0       7844.       194.6       7907.       194.9       7954.0
GR   196.1    7974.9     195.9      8034.8
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X1   246.0    34.0      4943.3    5036.5    250.      400.      389.5
X3                                4943.3              5036.5
GR   179.3    2099.9    179.3     2122.2    175.3     2135.8    179.1     3207.4    183.7     4161.6
GR   184.8    4209.9    186.7     4218.2    186.8     4246.9    185.6     4256.8    186.0     4273.7
GR   186.0    4300.0    184.4     4313.0    185.6     4338.4    185.0     4398.7    185.3     4489.2
GR   186.7    4504.6    186.6     4529.6    185.5     4536.6    186.8     4831.9    187.5     4943.3
GR   169.3    4987.4    169.3     5000.0    169.3     5018.0    187.2     5036.5    186.3     5207.1
GR   183.8    6460.     183.1     6700.     182.5     7450.     180.8     7460.     184.1     7476.
GR   186.0    7668.     195.2     7694.     198.3     7757.     197.9     7800.

X1   248.0    27.0      4949.1    5080.3    485.0     450.      523.1
X3                                4949.1              5420.
GR   180.4    2240.4    180.4     2265.6    175.3     2278.4    180.7     3315.8    183.7     4140.6
GR   185.4    4211.4    186.9     4232.3    186.7     4263.6    190.6     4300.5    189.1     4372.1
GR   185.1    4399.6    186.8     4429.9    186.0     4469.3    187.8     4890.1    187.8     4949.1
GR   169.7    4983.5    169.7     5000.0    169.7     5017.7    187.4     5080.3    188.4     5420.
GR   184.6    7210.     184.0     7355.     182.0     7363.     185.4     7376.     186.3     7496.
GR   197.5    7549.     202.1     7587.

NC                      .06
X1   250.0    30.0      4908.2    5045.1    200.      132.1     310.2
X3                                4908.2              5082.1
GR   180.9    1870.5    180.9     1895.1    175.4     1914.2    182.4     3284.1    183.7     3696.8
GR   185.7    3731.9    185.7     3759.2    185.3     3768.5    187.8     3791.6    187.6     3824.4
GR   191.4    3862.8    190.8     3923.4    187.2     3974.4    189.9     4837.2    189.9     4908.2
GR   185.6    4930.2    181.1     4966.7    169.7     4990.9    169.7     5000.0    169.7     5018.7
GR   189.0    5045.1    189.2     5082.1    188.4     5173.1    184.6     6960.7    184.0     7105.
GR   182.0    7113.     185.4     7126.     186.3     7246.     197.5     7300.     202.1     7337.

X1   252.0    30.0      4963.9    5056.5    145.1         770.      670.0
X3                                4941.6              5056.5
GR   181.8    1953.8    181.8     1977.8    177.0     1996.2    181.1     2612.0    184.0     3727.5
GR   186.3    3771.5    186.3     3796.7    185.9     3807.2    190.3     3834.3    189.6     3872.7
GR   189.6    3886.1    191.0     3905.3    190.2     3986.8    188.0     4016.5    188.0     4048.7
GR   186.9    4060.0    190.8     4927.5    190.8     4941.6    190.8     4963.9    171.9     4992.8
GR   171.9    5000.0    171.9     5011.5    191.1     5056.5    189.8     5143.9    186.9     6480.
GR   189.2    6640.     194.4     6810.     199.1     7110.     201.2     7200.     203.9     7300.

X1   254.0    35.0      4927.3    5042.7    485.2     433.0     488.2
X3                                4713.3              5042.7
GR   183.2    1987.3    183.2     2015.8    177.4     2034.1    184.6     3112.4    186.8     3516.3
GR   188.0    3622.3    189.4     3631.9    189.4     3651.7    188.2     3666.6    192.3     3692.0
GR   192.3    3733.4    190.4     3759.4    193.2     3793.0    192.8     3839.7    189.5     3867.8
GR   189.5    3916.7    186.8     3928.8    188.1     4059.3    190.6     4071.9    191.9     4509.7
GR   192.6    4713.3    190.9     4722.8    191.1     4927.3    172.0     4981.4    172.0     5000.0
GR   172.0    5020.3    193.0     5042.7    191.2     5098.7    190.3     5400.     190.0     5710.
GR   189.7    6100.     188.4     6450.     195.7     6600.     203.3     6810.     206.6     7260.
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NC                      .05
X1   256.0    33.0      4935.4    5032.6    106.4     140.      130.4
X3                                4719.9              5032.6
GR   183.3    2049.5    183.3     2073.0    178.1     2098.1    185.9     3311.1    187.3     3567.1
GR   189.8    3643.4    189.8     3667.5    189.1     3681.9    192.4     3710.6    192.4     3750.5
GR   191.2    3779.1    193.1     3810.7    192.6     3866.2    189.1     3887.5    189.3     3930.8
GR   188.2    3936.9    188.1     4072.3    190.9     4081.4    191.4     4522.5    191.4     4719.9
GR   192.1    4935.4    174.4     4964.8    173.4     4986.9    171.3     5000.0    171.2     5014.2
GR   193.0    5032.6    191.2     5094.7    190.9     5430.     190.8     5820.     189.3     6270.
GR   193.7    6400.     185.9     6610.     208.4     7100.

X1   258.0    26.0      4940.7    5047.3    163.5     150.0     147.3
X3                                4940.7              5047.3
GR   183.3    2126.7    183.1     2158.1    178.4     2180.7    184.6     3244.4    186.6     3583.9
GR   189.0    3639.7    190.5     3696.2    193.0     3765.5    191.5     3795.2    194.1     3829.5
GR   194.6    3887.2    189.9     3905.4    189.1     4146.8    192.3     4910.9    192.3     4940.7
GR   174.0    4981.0    174.0     5000.0    174.0     5019.6    193.7     5047.3    191.8     5149.1
GR   192.0    5540.     190.5     6050.     190.7     6185.     199.3     6410.     194.8     6890.
GR   205.1    7350.

X1   260.0    30.0      4943.9    5063.9    550.      532.8     771.2
X3                                4943.9              5063.9
GR   184.8    2858.8    184.4     2868.1    182.6     2876.3    184.6     2883.9    184.6     2898.8
GR   179.6    2915.8    184.6     3847.6    186.2     3937.8    189.3     4016.1    189.2     4085.8
GR   185.8    4101.9    185.8     4112.4    188.9     4130.7    191.3     4198.1    194.3     4244.7
GR   191.7    4272.5    197.1     4377.7    189.1     4403.4    193.2     4926.6    193.2     4943.9
GR   174.5    4979.2    174.5     5000.0    174.5     5018.7    194.8     5063.9    193.8     5255.6
GR   193.2    5975.     192.9     6115.     192.1     6385.     195.8     6900.     212.5     7600.

X1   262.0    34.0      4943.0    5075.7    450.      654.0     595.2
X3                                4943.0                 5110.
GR   186.0    2881.8    186.2     2915.7    181.5     2939.7    182.5     3202.9    188.4     3262.9
GR   188.5    3329.4    189.8     3416.7    187.7     3527.2    204.5     3550.5    205.0     3660.1
GR   207.3    3762.1    204.1     3803.5    205.8     3846.7    205.4     3922.7    190.6     3957.8
GR   190.6    3970.1    195.9     4003.7    195.9     4044.5    185.8     4071.5    188.3     4107.5
GR   186.2    4150.8    192.4     4901.3    192.4     4926.0    192.4     4943.0    174.7     4981.6
GR   174.6    5000.0    174.6     5036.4    193.6     5075.7    193.9     5470.     194.5     5630.
GR   193.9    5930.     202.6     6500.     202.6     7160.     215.0     8000.

X1   264.0    35.0      4904.2    5063.3    180.      118.6     187.8
X3                                4904.2              5063.3
GR   186.6    2690.0    187.0     2727.0    181.8     2752.8    183.0     2897.3    216.9     3006.3
GR   217.1    3105.6    215.7     3123.2    216.9     3153.3    214.4     3227.1    203.9     3270.1
GR   201.3    3295.2    188.6     3328.7    188.0     3426.4    195.4     3465.1    191.5     3542.8
GR   184.1    3574.1    183.6     3611.9    189.6     3666.0    190.3     3708.8    186.2     3739.5
GR   187.6    3770.7    188.5     4264.8    194.9     4882.2    194.9     4904.2    178.9     4942.8
GR   174.0    4978.8    173.6     5000.0    173.9     5026.2    194.9     5063.3    194.6     5130.6
GR   194.5    5550.     193.9     5850.     202.6     6410.     202.6     7080.     215.0     7920.
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NC                      .045
X1   266.0    36.0      4850.6    5059.2    260.      224.7     305.6
X3                                4850.6              5175.0
GR   182.7    2157.3    184.2     2199.1    217.3     2312.3    185.0     2384.2    187.6     2402.6
GR   187.6    2455.4    185.0     2469.6    184.7     2485.5    220.1     2552.9    218.1     2624.0
GR   212.4    2654.7    207.7     2740.1    186.1     2831.2    184.4     2947.2    185.4     3131.2
GR   188.8    3154.2    190.2     3215.4    191.3     3278.2    187.5     3310.5    186.5     3427.4
GR   191.1    4307.6    195.2     4790.6    195.2     4819.2    195.2     4833.9    195.2     4850.6
GR   189.4    4882.6    180.7     4966.3    175.2     4983.4    175.2     5000.0    175.2     5031.0
GR   193.5    5059.2    195.1     5175.0    194.1     5820.     196.9     6150.     202.6     6700.
GR   215.0    7500.

X1   268.0    25.0      4945.5    5085.8    260.      371.4     314.2
X3                                4937.8              5085.8
GR   189.7    2271.4    189.5     2310.6    185.3     2336.5    189.4     3051.1    191.7     3171.0
GR   188.4    3195.9    189.8     3212.3    189.8     3251.1    188.1     3268.5    193.1     4388.3
GR   195.3    4833.3    195.7     4930.1    195.7     4937.8    195.5     4945.5    175.7     4978.1
GR   175.7    5000.0    175.7     5026.9    187.1     5060.2    195.3     5085.8    194.7     5171.3
GR   194.5    5400.     194.8     5700.     196.6     5900.     202.5     6200.     215.0     7350.

  End Left Levee Failure

X1   270.0    19.0      4892.5    5074.4    389.9         852.5     850.0
X3                                4892.5
GR   190.4    1627.5    190.4     1665.0    187.0     1692.6    188.4     1819.2    190.4     2396.0
GR   190.3    2437.7    188.9     2446.1    190.2     2467.8    191.1     3453.1    196.6     4562.4
GR   196.6    4892.5    190.9     4930.8    177.7     4964.8    177.7     5000.0    177.7     5049.6
GR   196.4    5074.4    195.1     5255.2    198.2     5356.4    215.0     6750.

X1   272.0    19.0      4953.2    5108.4    525.7     470.7         770.0
X3                                4953.2
GR   191.6    2493.1    191.7     2567.5    191.2     2575.0    194.4     3967.7    197.1     4953.2
GR   179.4    4987.7    179.4     5000.0    179.4     5015.7    188.2     5052.0    195.7     5069.2
GR   196.8    5091.5    198.8     5108.4    206.6     5655.4    216.6     6684.1    213.4     6745.1
GR   208.1    6806.6    209.0     7062.0    215.4     7079.4    214.7     7190.2

X1   274.0    22.0      4893.6    5052.1    350.      290.          810.0
X3                                4857.6
GR   192.1    1871.4    192.1     1917.4    191.4     1927.4    196.7     3547.0    199.8     4857.6
GR   198.8    4893.6    194.9     4916.8    191.9     4942.0    186.3     4970.8    179.6     4992.9
GR   179.6    5000.0    179.6     5016.5    209.2     5052.1    208.7     5104.3    220.6     6011.7
GR   221.2    6252.1    216.7     6319.7    214.3     6366.6    219.3     6376.5    218.3     6429.3
GR   219.9    6439.3    218.6     6479.8
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X1   276.0    17.0      4898.4    5074.6    194.4     550.        520.0
X3                                4898.4
GR   191.1    1647.9    190.3     1729.0    190.9     1913.8    197.4     3476.9    200.5     4784.7
GR   200.7    4898.4    195.3     4942.1    187.4     4963.0    181.4     4985.1    181.4     5000.0
GR   181.4    5024.1    190.8     5053.9    215.5     5074.6    216.7     5164.1    230.8     6161.0
GR   233.7    6176.9    235.4     6276.6

NC                      .035

       END CORPS OF ENGINEERS LEVEE

X1   278.0    18.0      4928.2    5054.5    638.9     882.2       1400.0
X3                                4810.8
GR   191.0    2846.7    191.8     2900.0    190.8     2917.4    200.0     4810.8    199.9     4928.2
GR   188.1    4961.0    183.6     4989.2    183.6     5000.0    183.6     5008.0    187.8     5029.3
GR   201.2    5054.5    202.2     5131.8    201.3     5480.4    200.1     5485.6    204.2     5500.8
GR   216.9    6137.1    228.8     6858.2    229.9     6930.1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1

CCHV=    0.100 CEHV=    0.300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     12.92 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.12    172.32      0.00    170.00    172.45      0.13      0.00       0.00    170.60
    3996.9     124.5    3872.5       0.0     133.8    1334.5       0.0       0.0        0.0 100000.00
      0.00      0.93      2.90      0.00     0.050     0.065     0.000     0.000    150.20   4861.00
  0.000570        0.        0.        0.         0         0         4      0.00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     10.85 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.15    172.65      0.00      0.00    172.89      0.24      0.41       0.04    172.00
    5093.0       3.0    5090.0       0.0       6.6    1283.5       0.0      16.5        1.7 100000.00
      0.04      0.45      3.97      0.00     0.050     0.065     0.000     0.000    150.50   4938.17
  0.001038      510.      522.      545.         2         0         0      0.00    109.34   5047.52

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.36 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     20.76    173.26      0.00      0.00    173.58      0.32      0.67       0.02    174.60
    5093.7       0.0    5093.7       0.0       0.0    1116.1       0.0      30.8        2.9 100000.00
      0.07      0.00      4.56      0.00     0.000     0.065     0.000     0.000    152.50   4941.10
  0.001641      470.      516.      541.         2         0         0      0.00     88.25   5029.35

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.21 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     20.11    173.81      0.00      0.00    173.91      0.09      0.30      0.02    175.90
    5094.0       0.0    5003.5      90.5       0.0    2029.9     105.5      48.5       4.2    167.00
      0.12      0.00      2.46      0.86     0.000     0.065     0.070     0.000    153.70   4931.32
  0.000329      680.      481.      320.         2         0         0      0.00    164.17   5095.49


CCHV=    0.300 CEHV=    0.500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.14 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.47


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     15.44    173.74      0.00      0.00    174.04      0.30      0.03      0.11    175.70
    5127.4       0.0    5127.4       0.0       0.0    1159.4       0.0      50.4       4.4 100000.00
      0.13      0.00      4.42      0.00     0.000     0.065     0.000     0.000    158.30   4962.91
  0.001539       50.       50.       50.         3         0         0      0.00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      1.56      2.60      0.00     75.00      6.00   1173.00      0.00    158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.46 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.07

CLASS A LOW FLOW

3420 BRIDGE W.S.=     173.68 BRIDGE VELOCITY=       4.83     CALCULATED CHANNEL AREA=      1061.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


 EGPRS      EGLWC      H3         QWEIR      QLOW       BAREA   TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                    AREA
     0.00     174.06       0.02         0.      5127.      1173.      1173.      175.30     177.80         0.


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       177.90 ELREA=    100000.00


       SPRR

   210.000      15.46     173.76       0.00       0.00     174.06       0.30       0.02       0.00     177.90
    5127.4        0.0     5127.4        0.0        0.0     1160.8        0.0       51.6        4.5  100000.00
      0.13       0.00       4.42       0.00      0.000      0.016      0.000      0.000     158.30    4962.92
  0.000093        45.        45.        45.          0          0          0       0.00      75.17    5038.09


*SECNO 212.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.17


3470 ENCROACHMENT STATIONS=     4916.4    5051.8  TYPE=      1  TARGET=      135.400
   212.000      17.26     173.66       0.00       0.00     174.19       0.53       0.02       0.11     174.40
    5127.4        0.0     5127.4        0.0        0.0      876.2        0.0       53.1        4.6  100000.00
      0.13       0.00       5.85       0.00      0.000      0.065      0.000      0.000     156.40    4975.96
  0.003087        95.        65.        65.          3          0          0       0.00      75.31    5051.27


CCHV=    0.100 CEHV=    0.300
*SECNO 214.000

3470 ENCROACHMENT STATIONS=     4928.0    5051.4  TYPE=      1  TARGET=      123.400
   214.000      16.64     174.24       0.00       0.00     174.85       0.60       0.63       0.02     175.10
    5341.1        0.0     5341.1        0.0        0.0      858.7        0.0       57.0        4.9  100000.00
      0.14       0.00       6.22       0.00      0.000      0.065      0.000      0.000     157.60    4979.48
  0.003492       171.       192.       700.          2          0          0       0.00      71.92    5051.40
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

1490 NH CARD USED
*SECNO 216.000

3470 ENCROACHMENT STATIONS=     4927.8    5026.0  TYPE=      1  TARGET=       98.200
   216.000     18.65    176.35      0.00       0.00    176.85      0.51       2.00       0.01     175.60
    6393.8       0.0    6393.8       0.0        0.0    1120.9       0.0       71.7        6.2 100000.00
      0.17      0.00      5.70      0.00      0.000     0.065     0.000      0.000     157.70    4927.80
  0.002796      377.      648.      490.          3         0         0       0.00      97.47    5025.27

1490 NH CARD USED
*SECNO 218.000

3470 ENCROACHMENT STATIONS=     4918.7    5057.2  TYPE=      1  TARGET=      138.500
   218.000     19.98    178.18      0.00       0.00    178.65      0.47       1.80       0.00     178.00
    7250.4       0.2    7250.2       0.0        0.7    1319.6       0.0       91.4        7.9 100000.00
      0.21      0.28      5.49      0.00      0.050     0.065     0.000      0.000     158.20    4937.84
  0.002365      539.      704.      793.          2         0         0       0.00     119.36    5057.20

1490 NH CARD USED
*SECNO 220.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3470 ENCROACHMENT STATIONS=     4859.5    5089.1  TYPE=      1  TARGET=      229.600
   220.000     20.49    179.79      0.00       0.00    180.08      0.29       1.41       0.02     179.90
    7939.4       0.0    7939.4       0.0        0.0    1846.0       0.0      121.7       10.4 100000.00
      0.26      0.00      4.30      0.00      0.000     0.065     0.000      0.000     159.30    4940.05
  0.001298      817.      833.      792.          2         0         0       0.00     147.38    5087.43

1490 NH CARD USED
*SECNO 222.000

3470 ENCROACHMENT STATIONS=     4909.6    5072.1  TYPE=      1  TARGET=      162.500
   222.000     20.51    180.91      0.00       0.00    181.31      0.41       1.20       0.04     182.90
    7939.9       0.0    7939.9       0.0        0.0    1548.8       0.0      153.1       12.8 100000.00
      0.30      0.00      5.13      0.00      0.000     0.065     0.000      0.000     160.40    4957.84
  0.001722      857.      807.      704.          1         0         0       0.00     112.31    5070.15
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 224.000

3470 ENCROACHMENT STATIONS=     4919.1    5064.6  TYPE=      1  TARGET=      145.500
   224.000     18.16    182.76      0.00       0.00    183.33      0.58       1.97       0.05     185.40
    7939.9       0.0    7939.9       0.0        0.0    1304.3       0.0      182.6       15.1 100000.00
      0.35      0.00      6.09      0.00      0.000     0.065     0.000      0.000     164.60    4953.33
  0.002867     1117.      900.      417.          2         0         0       0.00     108.96    5062.29


*SECNO 226.000
3280 CROSS SECTION    226.00 EXTENDED      1.25 FEET


3470 ENCROACHMENT STATIONS=     4559.3    4691.7  TYPE=      1  TARGET=      132.400
   226.000     20.15    185.85      0.00       0.00    186.31      0.45       2.96       0.01     185.30
    7739.9       1.4    7738.4       0.0        2.4    1430.9       0.0      223.1       18.3 100000.00
      0.41      0.61      5.41      0.00      0.045     0.065     0.000      0.000     165.70    4583.17
  0.001873      887.     1290.      400.          2         0         0       0.00     107.97    4691.14


CCHV=    0.300 CEHV=    0.500
*SECNO 228.000
3280 CROSS SECTION    228.00 EXTENDED      1.31 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46


3470 ENCROACHMENT STATIONS=     4882.3    4992.3  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

   228.000     19.21    186.21      0.00       0.00    186.46      0.25       0.09       0.06 100000.00
    7739.9       0.0    7739.9       0.0        0.0    1934.4       0.0      225.9       18.5 100000.00
      0.42      0.00      4.00      0.00      0.000     0.065     0.000      0.000     167.00    4882.27
  0.000884       72.       72.       72.          2         0         0       0.00     107.32    4989.59
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      2.60      0.00    110.00      7.20   2200.00      0.00    167.00     167.00

*SECNO 230.000
3280 CROSS SECTION    230.00 EXTENDED      2.04 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.89

CLASS A LOW FLOW

3420 BRIDGE W.S.=     186.18 BRIDGE VELOCITY=       3.93     CALCULATED CHANNEL AREA=      1972.

 EGPRS      EGLWC       H3        QWEIR      QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                                  AREA
      0.00    186.50      0.03        0.     7740.     2200.     2210.      188.50    191.50        0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=       190.30


        NORTHBOUND HIGHWAY 101

   230.000     18.64    186.24      0.00       0.00    186.50      0.26      0.05      0.00 100000.00
    7739.9       0.0    7739.9       0.0        0.0    1885.1       0.0     228.4      18.6    190.30
      0.42      0.00      4.11      0.00      0.000     0.016     0.000     0.000    167.60   4886.09
  0.000058       58.       58.       58.          0         0         0      0.00    106.27   4992.36

*SECNO 232.000

3265 DIVIDED FLOW


3470 ENCROACHMENT STATIONS=     4957.7    5073.1  TYPE=      1  TARGET=      115.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       241.00 ELREA=    100000.00
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  SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
  Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
  TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
  SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 232.000     17.88     186.28       0.00       0.00     186.52       0.24       0.01       0.01     241.00
  7739.9       0.0     7739.9       0.0        0.0      1965.3       0.0      231.8       18.8  100000.00
    0.43      0.00       3.94      0.00      0.000      0.016      0.000      0.000     168.40    4957.70
0.000117       77.        77.       77.          2          0          0       0.00     110.01    5073.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      2.60      0.00    110.00      7.20   2200.00      0.00    168.40     168.40

*SECNO 240.000
3280 CROSS SECTION    240.00 EXTENDED      0.81 FEET

CLASS A LOW FLOW

3420 BRIDGE W.S.=     186.24 BRIDGE VELOCITY=       4.22     CALCULATED CHANNEL AREA=      1834.

 EGPRS      EGLWC      H3        QWEIR      QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                                AREA
      0.00    186.67      0.03        0.     7740.     2200.     2066.      188.50    190.50        0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00


        SOUTHBOUND HIGHWAY 101
  240.000     17.81     186.31       0.00       0.00     186.67       0.36       0.15       0.00  100000.00
   7739.9       0.0     7739.9       0.0        0.0      1608.5       0.0      233.8       18.9  100000.00
     0.43      0.00       4.81      0.00      0.000      0.016      0.000      0.000     168.50    4886.09
 0.000090       48.        48.       48.          0          0          0       0.00     110.00    4996.09


*SECNO 242.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.16


3470 ENCROACHMENT STATIONS=     4814.0    5068.0  TYPE=      1  TARGET=      254.000
  242.000     17.27     186.17       0.00       0.00     186.84       0.67       0.02       0.16     185.00
   7739.9     193.4     7546.5       0.0       94.0      1134.2       0.0      236.1       19.2     186.90
     0.43      2.06       6.65      0.00      0.045      0.065      0.000      0.000     168.90    4814.00
 0.003423       72.        72.       72.          2          0          0       0.00     177.64    4991.64
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=    0.100 CEHV=    0.300
*SECNO 244.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.19


3470 ENCROACHMENT STATIONS=     4792.9    5042.2  TYPE=      1  TARGET=      249.300
   244.000     18.21    187.11      0.00       0.00    187.25      0.14       0.36       0.05    185.60
    7993.3       0.0    7993.3       0.0        0.0    2665.0       0.0      247.5       20.3 100000.00
      0.46      0.00      3.00      0.00      0.000     0.065     0.000      0.000     168.90   4792.90
  0.000763      137.      258.      410.          2         0         0       0.00     249.30   5042.20


*SECNO 246.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.43


3470 ENCROACHMENT STATIONS=     4943.3    5036.5  TYPE=      1  TARGET=       93.200
   246.000     17.98    187.28      0.00       0.00    187.94      0.67       0.53       0.16    187.50
    7255.9       0.0    7255.9       0.0        0.0    1108.7       0.0      264.4       21.8 100000.00
      0.47      0.00      6.54      0.00      0.000     0.065     0.000      0.000     169.30   4943.84
  0.003472      250.      390.      400.          2         0         0       0.00      92.66   5036.50


*SECNO 248.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.64


3470 ENCROACHMENT STATIONS=     4949.1    5420.0  TYPE=      1  TARGET=      470.900
   248.000     19.06    188.76      0.00       0.00    189.03      0.27       1.05       0.04    187.80
    7342.3       0.0    7024.3     318.0        0.0    1635.6     292.9      282.4       24.9    187.40
      0.51      0.00      4.29      1.09      0.000     0.065     0.045      0.000     169.70   4949.10
  0.001319      485.      523.      450.          2         0         0       0.00     470.90   5420.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 250.000

3470 ENCROACHMENT STATIONS=     4908.2    5082.1  TYPE=      1  TARGET=      173.900
   250.000      19.46     189.16       0.00       0.00     189.61       0.45       0.52       0.05     189.90
    7416.3        0.0     7415.6        0.7        0.0     1377.3        2.3      293.6       26.4     189.00
      0.52       0.00       5.38       0.29      0.000      0.060      0.045      0.000     169.70    4911.99
  0.002297       200.       310.       132.          2          0          0       0.00     162.52    5074.51

*SECNO 252.000

3470 ENCROACHMENT STATIONS=     4941.6    5056.5  TYPE=      1  TARGET=      114.900
   252.000      18.94     190.84       0.00       0.00     191.61       0.78       1.91       0.10     190.80
    7416.7        0.2     7416.5        0.0        0.9     1048.9        0.0      312.2       28.5 100000.00
      0.55       0.23       7.07       0.00      0.045      0.060      0.000      0.000     171.90    4941.60
  0.003621       145.       670.       770.          2          0          0       0.00     114.29    5055.89

*SECNO 254.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.81

3470 ENCROACHMENT STATIONS=     4713.3    5042.7  TYPE=      1  TARGET=      329.400
   254.000      20.27     192.27       0.00       0.00     192.60       0.33       0.94       0.05     191.10
    7788.5      357.5     7431.0        0.0      265.9     1588.1        0.0      328.5       30.9 100000.00
      0.58       1.34       4.68       0.00      0.045      0.060      0.000      0.000     172.00    4715.12
  0.001216       485.       488.       433.          2          0          0       0.00     326.81    5041.93

*SECNO 256.000

3470 ENCROACHMENT STATIONS=     4719.9    5032.6  TYPE=      1  TARGET=      312.700
   256.000      21.13     192.33       0.00       0.00     192.79       0.46       0.15       0.04     192.10
    7919.7       95.4     7824.3        0.0      123.7     1423.2        0.0      333.5       31.8 100000.00
      0.59       0.77       5.50       0.00      0.045      0.050      0.000      0.000     171.20    4719.90
  0.001148       106.       130.       140.          2          0          0       0.00     312.13    5032.03

*SECNO 258.000

3470 ENCROACHMENT STATIONS=     4940.7    5047.3  TYPE=      1  TARGET=      106.600
   258.000      18.45     192.45       0.00       0.00     193.02       0.57       0.20       0.03     192.30
    8025.7        0.0     8025.7        0.0        0.0     1326.6        0.0      338.4       32.5 100000.00
      0.59       0.00       6.05       0.00      0.000      0.050      0.000      0.000     174.00    4940.70
  0.001587       164.       147.       150.          3          0          0       0.00     104.85    5045.55
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 260.000

3470 ENCROACHMENT STATIONS=     4943.9    5063.9  TYPE=      1  TARGET=      120.000
   260.000     19.15    193.65      0.00       0.00    194.12      0.48       1.09       0.01     193.20
    8376.6       0.0    8376.6       0.0        0.0    1510.3       0.0      363.5       34.5  100000.00
      0.63      0.00      5.55      0.00      0.000     0.050     0.000      0.000     174.50    4943.90
  0.001278      550.      771.      533.          2         0         0       0.00     117.43    5061.33

*SECNO 262.000

3470 ENCROACHMENT STATIONS=     4943.0    5110.0  TYPE=      1  TARGET=      167.000
   262.000     19.75    194.35      0.00       0.00    194.85      0.50       0.72       0.01     192.40
   10824.7       0.0   10801.9      22.8        0.0    1900.9      25.2      387.0       36.5     193.60
      0.66      0.00      5.68      0.90      0.000     0.050     0.045      0.000     174.60    4943.00
  0.001159      450.      595.      654.          2         0         0       0.00     167.00    5110.00

*SECNO 264.000

3470 ENCROACHMENT STATIONS=     4904.2    5063.3  TYPE=      1  TARGET=      159.100
   264.000     21.06    194.66      0.00       0.00    195.04      0.38       0.18       0.01     194.90
   11526.2       0.0   11526.2       0.0        0.0    2326.9       0.0      396.1       37.1  100000.00
      0.67      0.00      4.95      0.00      0.000     0.050     0.000      0.000     173.60    4904.76
  0.000829      180.      188.      119.          2         0         0       0.00     158.12    5062.89

*SECNO 266.000

3470 ENCROACHMENT STATIONS=     4850.6    5175.0  TYPE=      1  TARGET=      324.400
   266.000     19.75    194.95      0.00       0.00    195.29      0.34       0.25       0.00     195.20
   11526.2       0.0   11468.5      57.7        0.0    2445.1      77.0      413.1       38.7     193.50
      0.69      0.00      4.69      0.75      0.000     0.045     0.045      0.000     175.20    4851.93
  0.000786      260.      306.      225.          2         0         0       0.00     312.82    5164.76

*SECNO 268.000

3470 ENCROACHMENT STATIONS=     4937.8    5085.8  TYPE=      1  TARGET=      148.000
   268.000     19.36    195.06      0.00       0.00    195.70      0.63       0.31       0.09     195.50
   11526.2       0.0   11526.2       0.0        0.0    1807.8       0.0      428.7       40.4  100000.00
      0.70      0.00      6.38      0.00      0.000     0.045     0.000      0.000     175.70    4946.22
  0.001318      260.      314.      371.          2         0         0       0.00     138.85    5085.07
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 270.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS=     4892.5    6750.0  TYPE=      1  TARGET=    -4892.500
   270.000     18.50    196.20      0.00       0.00    196.59      0.38       0.87       0.02     196.60
   11526.2       0.0   11458.8      67.3        0.0    2296.7     105.9      469.8       45.4     196.40
      0.75      0.00      4.99      0.64      0.000     0.045     0.045      0.000     177.70    4895.11
  0.000812      390.      850.      853.          2         0         0       0.00     369.79    5291.46

*SECNO 272.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.49

3470 ENCROACHMENT STATIONS=     4953.2    7190.2  TYPE=      1  TARGET=    -4953.200
   272.000     17.41    196.81      0.00       0.00    197.94      1.13       1.13       0.22     197.10
   11526.2       0.0   11526.2       0.0        0.0    1350.8       0.0      502.6       49.2     198.80
      0.78      0.00      8.53      0.00      0.000     0.045     0.000      0.000     179.40    4953.77
  0.003395      526.      770.      471.          3         0         0       0.00     137.78    5091.56

*SECNO 274.000

3470 ENCROACHMENT STATIONS=     4857.6    6479.8  TYPE=      1  TARGET=    -4857.600
   274.000     19.76    199.36      0.00       0.00    200.20      0.84       2.23       0.03     198.80
   11526.2       3.8   11522.4       0.0        5.6    1567.7       0.0      529.8       51.9     209.20
      0.81      0.67      7.35      0.00      0.045     0.045     0.000      0.000     179.60    4873.45
  0.002281      350.      810.      290.          3         0         0       0.00     166.81    5040.27

*SECNO 276.000

3470 ENCROACHMENT STATIONS=     4898.4    6276.6  TYPE=      1  TARGET=    -4898.400
   276.000     19.16    200.56      0.00       0.00    201.14      0.58       0.92       0.03     200.70
   11526.2       0.0   11526.2       0.0        0.0    1880.2       0.0      550.4       53.8     215.50
      0.83      0.00      6.13      0.00      0.000     0.045     0.000      0.000     181.40    4899.50
  0.001411      194.      520.      550.          2         0         0       0.00     162.58    5062.08
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 278.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4810.8 6930.1 TYPE= 1 TARGET= -4810.800

END CORPS OF ENGINEERS LEVEE

278.000	18.57	202.17	0.00	0.00	203.23	1.06	1.94	0.14	199.90
14400.0	543.5	13701.3	155.3	261.1	1621.9	200.2	610.6	63.6	201.20
0.88	2.08	8.45	0.78	0.045	0.035	0.045	0.000	183.60	4810.80
0.001403	639.	1400.	882.	2	0	0	0.00	670.34	5493.29

TN Sec 278 to 276 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1428.5	2.01	2.17	1.09	1400.0	1314.9

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2873.80	2867.93	0.20	2873.80	2867.93	0.20	41	200.559	202.173	276.000	278.000

TN Sec 276 to 274 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	520.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	199.359	200.559	274.000	276.000

TN Sec 274 to 272 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	810.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	196.806	199.359	272.000	274.000

TN Sec 272 to 270 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	770.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	196.202	196.806	270.000	272.000

TN Sec 270 to 268 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	850.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	195.064	196.202	268.000	270.000

TN Sec 270 to 268 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	850.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	195.064	196.202	268.000	270.000

TN Sec 268 to 266 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	285.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	194.954	195.064	266.000	268.000

TN Sec 268 to 266 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	330.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	194.954	195.064	266.000	268.000

TN Sec 266 to 264 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	275.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	194.662	194.954	264.000	266.000

TN Sec 266 to 264 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	315.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2873.80	2867.93	0.20	41	194.662	194.954	264.000	266.000

TN Sec 264 to 262 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
220.6	3.13	1.95	0.97	254.0	226.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
701.52	690.41	1.60	3575.33	3558.35	0.48	41	194.349	194.662	262.000	264.000

TN Sec 264 to 262 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	120.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3575.33	3558.35	0.48	41	194.349	194.662	262.000	264.000

TN Sec 262 to 260 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
718.2	3.35	1.95	1.20	600.0	600.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2448.10	2406.54	1.71	6023.43	5964.89	0.98	41	193.645	194.349	260.000	262.000

TN Sec 262 to 260 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	560.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6023.43	5964.89	0.98	41	193.645	194.349	260.000	262.000

TN Sec 260 to 258 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
281.1	1.14	0.45	0.30	940.0	940.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
350.87	321.63	8.70	6374.31	6286.52	1.39	41	192.453	193.645	258.000	260.000

TW Sec 260 to 258 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6374.31	6286.52	1.39	41	192.453	193.645	258.000	260.000

TN Sec 258 to 256 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
88.7	1.14	0.93	0.54	164.0	164.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
106.02	100.98	4.87	6480.33	6387.50	1.44	41	192.328	192.453	256.000	258.000

TW Sec 258 to 256 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6480.33	6387.50	1.44	41	192.328	192.453	256.000	258.000

TN Sec 256 to 254 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
111.3	1.13	1.17	1.05	106.0	106.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
131.13	125.96	4.02	6611.46	6513.46	1.49	41	192.272	192.328	254.000	256.000

TW Sec 256 to 254 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6611.46	6513.46	1.49	41	192.272	192.328	254.000	256.000

TN Sec 254 to 252 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
284.1	1.23	1.17	0.60	470.0	470.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
371.88	348.48	6.50	6983.33	6861.93	1.75	41	190.837	192.272	252.000	254.000

TW Sec 254 to 252 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6983.33	6861.93	1.75	41	190.837	192.272	252.000	254.000

TN Sec 252 to 250 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.6	0.14	0.04	0.02	670.0	31.8

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.36	0.08	124.55	6983.69	6862.02	1.76	41	189.158	190.837	250.000	252.000

TW Sec 252 to 250 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6983.70	6862.02	1.76	41	189.158	190.837	250.000	252.000

TN Sec 250 to 248 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
94.3	0.00	0.96	0.48	350.0	197.1

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6983.70	6862.02	1.76	41	188.757	189.158	248.000	250.000

TW Sec 250 to 248 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
74.02	55.53	28.55	7057.72	6917.55	2.01	41	188.757	189.158	248.000	250.000

TN Sec 248 to 246 Left (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
174.6	0.00	0.96	0.48	450.0	364.9

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7057.72	6917.55	2.01	41	187.277	188.757	246.000	248.000

TN Sec 248 to 246 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
83.5	0.73	0.36	0.22	385.0	385.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
86.34	60.56	35.11	7144.06	6978.11	2.35	41	187.277	188.757	246.000	248.000

TN Sec 246 to 244 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
217.9	1.52	1.01	0.54	400.0	400.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
388.79	330.80	16.12	7532.85	7308.91	3.02	41	187.113	187.277	244.000	246.000

TW Sec 244 to 242 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
253.40	215.47	16.18	7786.25	7524.38	3.42	41	186.170	187.113	242.000	244.000

TW Sec 242 to 240 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.25	7524.38	3.42	41	186.307	186.170	240.000	242.000

TW Sec 228 to 226 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.25	7524.38	3.42	41	185.854	186.210	226.000	228.000

TW Sec 228 to 226 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.25	7524.38	3.42	41	185.854	186.210	226.000	228.000

TW Sec 226 to 224 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.25	7524.38	3.42	41	182.757	185.854	224.000	226.000

TW Sec 226 to 224 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.26	7524.38	3.42	41	182.757	185.854	224.000	226.000

TW Sec 224 to 222 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7786.26	7524.38	3.42	41	180.907	182.757	222.000	224.000

TW Sec 224 to 222 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.01	0.00	0.00	7786.27	7524.38	3.42	41	180.907	182.757	222.000	224.000

TW Sec 222 to 220 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.01	0.00	0.00	7786.28	7524.38	3.42	41	179.792	180.907	220.000	222.000

TW Sec 222 to 220 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.43	0.00	0.00	7786.70	7524.38	3.43	41	179.792	180.907	220.000	222.000

TW Sec 220 to 218 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.64	0.00	0.00	7787.35	7524.38	3.43	41	178.184	179.792	218.000	220.000

TW Sec 220 to 218 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
688.36	315.70	74.23	8475.71	7840.08	7.79	41	178.184	179.792	218.000	220.000

TW Sec 218 to 216 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
459.46	302.00	41.36	8935.17	8142.08	9.29	41	176.347	178.184	216.000	218.000

TW Sec 218 to 216 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
397.12	266.58	39.34	9332.29	8408.66	10.41	41	176.347	178.184	216.000	218.000

TW Sec 216 to 214 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
199.19	127.19	44.12	9531.47	8535.85	11.02	41	174.244	176.347	214.000	216.000

TW Sec 216 to 214 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
853.57	245.93	110.53	10385.04	8781.78	16.73	41	174.244	176.347	214.000	216.000

TW Sec 214 to 212 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10385.04	8781.78	16.73	41	173.663	174.244	212.000	214.000

TW Sec 214 to 212 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
213.71	96.26	75.78	10598.75	8878.04	17.67	41	173.663	174.244	212.000	214.000

TW Sec 212 to 210 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10598.75	8878.04	17.67	41	173.760	173.663	210.000	212.000

TW Sec 212 to 210 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.02	0.00	0.00	10598.77	8878.04	17.67	41	173.760	173.663	210.000	212.000

TW Sec 208 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10598.77	8878.04	17.67	41	173.812	173.738	206.000	208.000

TW Sec 208 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
33.35	10.02	107.57	10632.12	8888.07	17.87	41	173.812	173.738	206.000	208.000

TW Sec 206 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.01	0.00	0.00	10632.14	8888.07	17.87	41	173.258	173.812	204.000	206.000

TW Sec 206 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.29	0.00	0.00	10632.43	8888.07	17.87	41	173.258	173.812	204.000	206.000

TW Sec 204 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.09	0.00	0.00	10632.52	8888.07	17.87	41	172.649	173.258	202.000	204.000

TW Sec 204 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.63	0.00	0.00	10633.15	8888.07	17.88	41	172.649	173.258	202.000	204.000

TW Sec 202 to 200 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
836.93	602.45	32.58	11470.08	9490.51	18.89	41	172.324	172.649	200.000	202.000

TW Sec 202 to 200 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
259.14	34.62	152.86	11729.22	9525.13	20.74	41	172.324	172.649	200.000	202.000

THIS RUN EXECUTED 30APR96 10:44:56

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HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS - CASE 3

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	200.000	0.00	0.00	0.00	150.20	3996.91	172.32	0.00	172.45	5.70	2.90	1468.23	1673.56
	202.000	521.90	0.00	0.00	150.50	5092.98	172.65	0.00	172.89	10.38	3.97	1290.02	1580.82
	204.000	516.30	0.00	0.00	152.50	5093.70	173.26	0.00	173.58	16.41	4.56	1116.10	1257.44
*	206.000	480.70	0.00	0.00	153.70	5094.01	173.81	0.00	173.91	3.29	2.46	2135.44	2810.53
*	208.000	50.00	0.00	0.00	158.30	5127.36	173.74	0.00	174.04	15.39	4.42	1159.42	1307.20
*	210.000	45.40	177.80	175.30	158.30	5127.36	173.76	0.00	174.06	0.93	4.42	1160.78	5319.45
*	212.000	65.30	0.00	0.00	156.40	5127.38	173.66	0.00	174.19	30.87	5.85	876.20	922.91
	214.000	191.80	0.00	0.00	157.60	5341.09	174.24	0.00	174.85	34.92	6.22	858.67	903.81
	216.000	647.60	0.00	0.00	157.70	6393.84	176.35	0.00	176.85	27.96	5.70	1120.86	1209.16
	218.000	703.90	0.00	0.00	158.20	7250.42	178.18	0.00	178.65	23.65	5.49	1320.29	1491.03
*	220.000	832.90	0.00	0.00	159.30	7939.43	179.79	0.00	180.08	12.98	4.30	1845.97	2204.12
	222.000	806.70	0.00	0.00	160.40	7939.86	180.91	0.00	181.31	17.22	5.13	1548.84	1913.45
	224.000	900.00	0.00	0.00	164.60	7939.87	182.76	0.00	183.33	28.67	6.09	1304.30	1482.88
	226.000	1290.00	0.00	0.00	165.70	7739.88	185.85	0.00	186.31	18.73	5.41	1433.25	1788.43
*	228.000	71.70	0.00	0.00	167.00	7739.88	186.21	0.00	186.46	8.84	4.00	1934.43	2602.82
*	230.000	58.00	191.50	188.50	167.60	7739.88	186.24	0.00	186.50	0.58	4.11	1885.12	10126.30
	232.000	77.00	0.00	0.00	168.40	7739.88	186.28	0.00	186.52	1.17	3.94	1965.33	7162.16

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	240.000	47.70	190.50	188.50	168.50	7739.88	186.31	0.00	186.67	0.90	4.81	1608.53	8144.10
*	242.000	72.20	0.00	0.00	168.90	7739.88	186.17	0.00	186.84	34.23	6.65	1228.18	1322.97
*	244.000	258.20	0.00	0.00	168.90	7993.28	187.11	0.00	187.25	7.63	3.00	2665.01	2893.84
*	246.000	389.50	0.00	0.00	169.30	7255.94	187.28	0.00	187.94	34.72	6.54	1108.65	1231.35
*	248.000	523.10	0.00	0.00	169.70	7342.28	188.76	0.00	189.03	13.19	4.29	1928.47	2021.37
	250.000	310.20	0.00	0.00	169.70	7416.30	189.16	0.00	189.61	22.97	5.38	1379.65	1547.45
	252.000	670.00	0.00	0.00	171.90	7416.67	190.84	0.00	191.61	36.21	7.07	1049.75	1232.56
*	254.000	488.20	0.00	0.00	172.00	7788.54	192.27	0.00	192.60	12.16	4.68	1854.05	2233.87
	256.000	130.40	0.00	0.00	171.20	7919.67	192.33	0.00	192.79	11.48	5.50	1546.92	2337.78
	258.000	147.30	0.00	0.00	174.00	8025.69	192.45	0.00	193.02	15.87	6.05	1326.57	2014.71
	260.000	771.20	0.00	0.00	174.50	8376.57	193.65	0.00	194.12	12.78	5.55	1510.28	2343.29
	262.000	595.20	0.00	0.00	174.60	10824.67	194.35	0.00	194.85	11.59	5.68	1926.12	3179.16
	264.000	187.80	0.00	0.00	173.60	11526.20	194.66	0.00	195.04	8.29	4.95	2326.94	4003.74
	266.000	305.60	0.00	0.00	175.20	11526.20	194.95	0.00	195.29	7.86	4.69	2522.06	4110.52
	268.000	314.20	0.00	0.00	175.70	11526.20	195.06	0.00	195.70	13.18	6.38	1807.84	3175.08
	270.000	850.00	0.00	0.00	177.70	11526.20	196.20	0.00	196.59	8.12	4.99	2402.61	4045.40
*	272.000	770.00	0.00	0.00	179.40	11526.20	196.81	0.00	197.94	33.95	8.53	1350.75	1978.29
	274.000	810.00	0.00	0.00	179.60	11526.20	199.36	0.00	200.20	22.81	7.35	1573.30	2413.30
	276.000	520.00	0.00	0.00	181.40	11526.20	200.56	0.00	201.14	14.11	6.13	1880.22	3068.58
	278.000	1400.00	0.00	0.00	183.60	14400.00	202.17	0.00	203.23	14.03	8.45	2083.16	3844.95

LOWER UVAS - CASE 3

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	200.000	3996.91	172.32	0.00	0.00	2.32	184.80	0.00
	202.000	5092.98	172.65	0.00	0.33	0.00	109.34	521.90
	204.000	5093.70	173.26	0.00	0.61	0.00	88.25	516.30
*	206.000	5094.01	173.81	0.00	0.55	0.00	164.17	480.70
*	208.000	5127.36	173.74	0.00	-0.07	0.00	75.19	50.00
*	210.000	5127.36	173.76	0.00	0.02	0.00	75.17	45.40
*	212.000	5127.38	173.66	0.00	-0.10	0.00	75.31	65.30
	214.000	5341.09	174.24	0.00	0.58	0.00	71.92	191.80
	216.000	6393.84	176.35	0.00	2.10	0.00	97.47	647.60
	218.000	7250.42	178.18	0.00	1.84	0.00	119.36	703.90
*	220.000	7939.43	179.79	0.00	1.61	0.00	147.38	832.90
	222.000	7939.86	180.91	0.00	1.12	0.00	112.31	806.70
	224.000	7939.87	182.76	0.00	1.85	0.00	108.96	900.00
	226.000	7739.88	185.85	0.00	3.10	0.00	107.97	1290.00
*	228.000	7739.88	186.21	0.00	0.36	0.00	107.32	71.70
*	230.000	7739.88	186.24	0.00	0.03	0.00	106.27	58.00
	232.000	7739.88	186.28	0.00	0.03	0.00	110.01	77.00
	240.000	7739.88	186.31	0.00	0.03	0.00	110.00	47.70
*	242.000	7739.88	186.17	0.00	-0.14	0.00	177.64	72.20
*	244.000	7993.28	187.11	0.00	0.94	0.00	249.30	258.20
*	246.000	7255.94	187.28	0.00	0.16	0.00	92.66	389.50
*	248.000	7342.28	188.76	0.00	1.48	0.00	470.90	523.10
	250.000	7416.30	189.16	0.00	0.40	0.00	162.52	310.20
	252.000	7416.67	190.84	0.00	1.68	0.00	114.29	670.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	254.000	7788.54	192.27	0.00	1.43	0.00	326.81	488.20
	256.000	7919.67	192.33	0.00	0.06	0.00	312.13	130.40
	258.000	8025.69	192.45	0.00	0.12	0.00	104.85	147.30
	260.000	8376.57	193.65	0.00	1.19	0.00	117.43	771.20
	262.000	10824.67	194.35	0.00	0.70	0.00	167.00	595.20
	264.000	11526.20	194.66	0.00	0.31	0.00	158.12	187.80
	266.000	11526.20	194.95	0.00	0.29	0.00	312.82	305.60
	268.000	11526.20	195.06	0.00	0.11	0.00	138.85	314.20
	270.000	11526.20	196.20	0.00	1.14	0.00	369.79	850.00
*	272.000	11526.20	196.81	0.00	0.60	0.00	137.78	770.00
	274.000	11526.20	199.36	0.00	2.55	0.00	166.81	810.00
	276.000	11526.20	200.56	0.00	1.20	0.00	162.58	520.00
	278.000	14400.00	202.17	0.00	1.61	0.00	670.34	1400.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    206.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    212.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    220.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    228.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    230.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    242.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    244.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    248.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    254.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    272.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: case4a.HC2

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*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    30APR96    TIME   10:45:03 *
*******************************************
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*************************************
 *  U.S. ARMY CORPS OF ENGINEERS      *
 *  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
 *  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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:::::::::::::::::::::::::::::::::::::::::::::
:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                       :::
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H A E S T A  D   M E T H O D S
============================
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS RUN EXECUTED 30APR96 10:45:03

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************



SPLIT FLOW BEING PERFORMED


SF      MODEL SPILL FROM PERCHED CHANNEL FAILING LOWER RIGHT LEVEE


JC      LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.            40.     -1.     48.

TN  Sec 278 to 276 Left
NS2.    276.    278.    -1.     .045    .00331
NG0.    200.7       1400.200.0

TN  Sec 276 to 274 Left
NS2.    274.    276.    -1.     .045    .00206
NG0.    199.8       520.200.7

TN  Sec 274 to 272 Left
NS2.    272.    274.    -1.     .045    .00255
NG0.    197.1       810.199.8

TN  Sec 272 to 270 Left
NS2.    270.    272.    -1.     .045    .00385
NG0.    196.6       770.197.1

TW  Sec 270 to 268 Left
WS2.    268.    270.    -1.     2.6
WC0.    196.7       850.196.6

TN  Sec 270 to 268 Right
NS2.    268.    270.    -1.     .045    .00710
NG0.    195.3       850.196.4

TW  Sec 268 to 266 Left
WS2.    266.    268.    -1.     2.6
WC0.    197.1   285.    196.7

TN  Sec 268 to 266 Right
NS2.    266.    268.    -1.     .045    .00428
NG0.    195.1   330.    195.3
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TW  Sec 266 to 264 Left
WS2.    264.    266.    -1.     2.6
WC0.    196.3   275.    197.1

TN  Sec 266 to 264 Right
NS2.    264.    266.    -1.     .045    .003
NG0.    194.9   315.    195.1

TW  Sec 264 to 262 Left
WS2.    262.    264.    -1.     2.6
WC0.    193.3   254.    196.3

TN  Sec 264 to 262 Right
NS2.    262.    264.    -1.     .045    .00323
NG0.    194.5   120.    194.9

TW  Sec 262 to 260 Left (Portion Returns at Sec 244.)
WS2.    260.    262.    244.    2.6
WC0.    193.4   600.    193.3

TN  Sec 262 to 260 Right
NS2.    260.    262.    -1.     .045    .00361
NG0.    194.8   560.    194.5

TW  Sec 260 to 258 Left
WS2.    258.    260.    -1.     2.6
WC0.    193.1   940.    193.4

TW  Sec 260 to 258 Right
WS2.    258.    260.    -1.     2.6
WC0.    193.7   860.    194.8

TW  Sec 258 to 256 Left
WS2.    256.    258.    -1.     2.6
WC0.    192.6   164.    193.1

TW  Sec 258 to 256 Right
WS2.    256.    258.    -1.     2.6
WC0.    193.0   150.    193.7

TW  Sec 256 to 254 Left
WS2.    254.    256.    -1.     2.6
WC0.    191.1   106.    192.6

TW  Sec 256 to 254 Right
WS2.    254.    256.    -1.     2.6
WC0.    193.0   130.    193.0

TW  Sec 254 to 252 Left
WS2.    252.    254.    -1.     2.6
WC0.    191.5   470.    191.1
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TW  Sec 254 to 252 Right
WS2.    252.    254.    -1.     2.6
WC0.    191.1   470.    193.0

TW  Sec 252 to 250 Left
WS2.    250.    252.    -1.     2.6
WC0.    190.7       670.191.5

TW  Sec 252 to 250 Right
WS2.    250.    252.    -1.     2.6
WC0.    189.2       670.191.1

TW  Sec 250 to 248 Left
WS2.    248.    250.    -1.     2.6
WC0.    189.7   350.    190.7

TW  Sec 250 to 248 Right
WS2.    248.    250.    -1.     2.6
WC0.    188.4   280.    189.2

TW  Sec 248 to 246 Left
WS2.    246.    248.    -1.     0.0
WC0.    187.5   450.    189.7

TN  Sec 248 to 246 Right
NS2.    246.    248.    -1.     .045    .00370
NG0.    187.2   385.    188.4

TW  Sec 246 to 244 Left
WS2.    244.    246.    -1.     0.0
WC0.    186.4   355.    187.5

TN  Sec 246 to 244 Right
NS2.    244.    246.    -1.     .045    .00475
NG0.    186.1   400.    187.2

TW  Sec 244 to 242 Left
WS2.    242.    244.    -1.     0.0
WC0.    185.0   200.    186.4

TW  Sec 244 to 242 Right
WS2.    242.    244.    -1.     2.6
WC0.    186.9   350.    186.1

TW  Sec 242 to 240 Right
WS2.    240.    242.    -1.     2.6
WC0.    187.5   72.2    186.9

TW  Sec 228 to 226 Left
WS2.    226.    228.    -1.     2.6
WC0.    187.4   71.7    190.4
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TW  Sec 228 to 226 Right
WS2.    226.    228.    -1.     2.6
WC0.    186.3   71.7    191.0

TW  Sec 226 to 224 Left
WS2.    224.    226.    -1.     2.6
WC0.    186.4   950.    187.4

TN  Sec 226 to 224 Right (LEVEE FAILS)
NS2.    224.    226.    -1.     .09     .079
NG0.    183.7   1200.   186.3

TW  Sec 224 to 222 Left
WS2.    222.    224.    -1.     2.6
WC0.    183.2       900.186.4

TN  Sec 224 to 222 Right (LEVEE FAILS)
NS2.    222.    224.    -1.     .12     .0037
NG0.    181.0       900.183.7

TW  Sec 222 to 220 Left
WS2.    220.    222.    -1.     2.6
WC0.    180.9   790.    183.2

TN  Sec 222 to 220 Right (LEVEE FAILS)
NS2.    220.    222.    -1.     .12     .0044
NG0.    180.3   807.    181.0

TW  Sec 220 to 218 Left
WS2.    218.    220.    -1.     2.6
WC0.    178.6   800.    180.9

TN  Sec 220 to 218 Right (LEVEE FAILS)
NS2.    218.    220.    -1.     .045    .0021
NG0.    176.3   720.    180.3

TW  Sec 218 to 216 Left
WS2.    216.    218.    -1.     2.6
WC0.    175.6   700.    178.6

TN  Sec 218 to 216 Right (LEVEE FAILS)
NS2.    216.    218.    -1.     .05     .0010
NG0.    174.8   770.    176.3

TW  Sec 216 to 214 Left
WS2.    214.    216.    -1.     2.6
WC0.    176.1   660.    175.6

TN  Sec 216 to 214 Right (LEVEE FAILS)
NS2.    214.    216.    -1.     .045    .0008
NG0.    173.5   790.    174.8
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TW  Sec 214 to 212 Left
WS2.    212.    214.    -1.     2.6
WC0.    177.8   190.    176.1

TN  Sec 214 to 212 Right (LEVEE FAILS)
NS2.    212.    214.    -1.     .045    .0012
NG0.    171.3   190.    173.5

TW  Sec 212 to 210 Left
WS2.    210.    212.    -1.     2.6
WC0.    178.2   94.5    177.8

TN  Sec 212 to 210 Right (LEVEE FAILS)
NS2.    210.    212.    -1.     .045    .0012
NG0.    176.6   65.3    171.3

TW  Sec 208 to 206 Left
WS2.    206.    208.    -1.     2.6
WC0.    177.5   50.     178.1

TW  Sec 208 to 206 Right
WS2.    206.    208.    -1.     2.6
WC0.    175.5   50.     173.0

TW  Sec 206 to 204 Left
WS2.    204.    206.    -1.     2.6
WC0.    174.6   460.    177.5

TW  Sec 206 to 204 Right
WS2.    204.    206.    -1.     2.6
WC0.    174.1   480.    175.5

TW  Sec 204 to 202 Left
WS2.    202.    204.    -1.     2.6
WC0.    173.1   469.5   174.6

TW  Sec 204 to 202 Right
WS2.    202.    204.    -1.     2.6
WC0.    173.3   540.8   174.1

TW  Sec 202 to 200 Left
WS2.    200.    202.    -1.     2.6
WC0.    171.0   510.2   173.1

TW  Sec 202 to 200 Right
WS2.    200.    202.    -1.     2.6
WC0.    172.0   545.2   173.3
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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (djs)  April 1996
T3      LOWER UVAS - CASE 4     CASE 4:  FAIL RIGHT LEVEE BETWEEN SPRR & 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                . 00057                                170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.                -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Normal Depth 1500 Feet D/S of Study Limit (SPRR)


NC   .05      .07       .065      .1        .3
QT   1.       14600.
X1   200.0    23.0      4948.8    5045.8
X3                                4861.0                  5045.8
GR   158.0    3750.0    159.2     3898.9    165.7     3917.1    165.7     3929.1    160.1     3949.3
GR   168.7    4850.4    171.0     4861.0    170.6     4948.8    161.0     4972.3    150.2     4990.5
GR   150.2    4990.5    150.2     5000.0    150.2     5014.0    172.0     5045.8    171.0     5088.4
GR   169.4    5094.4    168.3     5315.9    167.6     5541.2    166.0     5548.1    164.9     6037.9
GR   159.0    6978.6    159.9     6990.7    159.4     7051.0


X1   202.0    19.0      4958.4    5048.5    510.2     545.2     521.9
X3                                4924.1                  5048.5
GR   157.3    3450.2    158.8     3703.8    165.7     3722.0    165.6     3734.5    160.3     3755.0
GR   170.4    4845.9    171.2     4918.2    173.1     4924.1    172.0     4958.4    150.5     4988.3
GR   150.5    5000.0    150.5     5014.2    173.3     5048.5    171.7     5146.8    168.6     5687.6
GR   166.4    6120.4    159.9     7113.1    161.7     7140.5    161.8     7197.2


NC   .045
X1   204.0    17.0      4937.6    5030.1    469.5     540.8     516.3
X3                                4937.6                  5030.1
GR   158.4    3257.4    159.6     3438.6    165.4     3453.2    165.4     3471.1    161.2     3490.2
GR   171.3    4884.9    174.4     4905.8    174.6     4937.6    163.2     4967.4    152.5     4988.1
GR   152.5    5000.0    152.5     5010.9    174.1     5030.1    173.9     5065.6    171.7     5077.5
GR   170.4    5511.5    164.9     6535.9

  Expanded Flow D/S of SPRR Bridge
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X1   206.0    18.0       4927.5     5064.5     679.7      320.       480.7
X3                                  4901.1                5126.4
GR   160.7    3087.4     161.1      3116.1     166.2      3133.2     166.0      3149.4     162.5      3164.4
GR   171.8    4885.4     177.5      4901.1     175.9      4927.5     161.8      4953.3     153.7      4983.2
GR   153.7    5000.0     153.7      5031.8     167.0      5064.5     175.2      5101.8     175.5      5126.4
GR   172.8    5180.2     168.9      6080.1     162.6      7151.8

  D/S SPRR Bridge

NC                                  .3         .5
X1   208.0    13.0       4962.9     5038.1     50.        50.        50.
X3   10.                            4962.9                5038.1
GR   165.7    4068.7     172.2      4879.7     178.1      4911.4     175.7      4962.9     158.3      4963.0
GR   158.3    5000.0     158.3      5038.0     171.0      5038.1     173.0      5151.9     170.2      5667.3
GR   168.9    6072.1     169.1      6444.9     163.6      7128.3

NC   .02      .02        .016

  SPRR Bridge

SB   0.9      1.56       2.6                   75.        6.         1173.      0.

        SPRR

X1   210.0    14.0       4962.9     5038.1     45.4       45.4       45.4
X2                       1.         175.3      177.8                           1.33
X3   10.                            4962.9                5038.1
BT   -14.0    4142.1     175.5      165.0      4856.7     178.4      172.4      4914.7     178.4      178.2
BT            4961.5     178.4      178.0      4962.9     178.4      177.9      4963.0     180.3      175.3
BT            5000.0     180.3      175.3      5038.0     180.3      175.3      5038.1     178.3      176.5
BT            5055.1     178.2      157.8      5055.2     178.2      176.6      5376.9     177.1      173.3
BT            5923.4     174.8      170.6      6100.7     173.9      170.3
GR   165.0    4142.1     172.4      4856.7     178.2      4914.7     178.0      4961.5     177.9      4962.9
GR   158.3    4963.      158.3      5000.0     158.3      5038.0     175.3      5038.1     176.5      5055.1
GR   176.6    5055.2     173.3      5376.9     170.6      5923.4     170.3      6100.7

  U/S SPRR Bridge
  Begin Levee Failure

NC   .045     .045       .065
X1   212.0    27.0       4975.5     5051.8     94.5       65.3       65.3
X3                                  4916.4                5051.8
GR   166.2    3623.2     172.2      4896.8     177.8      4916.4     177.1      4950.1     174.4      4975.5
GR   156.4    4986.7     156.4      5000.0     156.4      5012.9     171.3      5051.8     171.3      5069.2
GR   171.3    5079.6     169.6      5807.2     168.5      6001.4     166.9      7709.7     166.4      8569.6
GR   167.1    8588.8     167.5      8628.9     167.1      8648.2     170.3      8664.8     168.3      8748.1
GR   164.0    8769.9     165.4      8796.4     164.       9293.      159.7      9298.      159.7      9308.
GR   164.7    9313.4     180.0      9433.
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NC                                  .1          .3

X1   214.0    27.0       4979.1     5051.4      170.8       700.        191.8
X3                                  4928.                   5051.4
GR   171.0    3387.3     170.7      3420.4      165.9       3449.1      169.7       4461.4      170.8       4736.3
GR   172.4    4744.8     176.1      4928.0      175.1       4979.1      157.6       4986.9      157.6       5000.0
GR   157.6    5016.6     173.5      5051.4      171.3       5204.6      173.6       6737.9      169.7       7956.9
GR   169.3    7981.8     168.2      8000.8      173.1       8033.5      172.0       8069.2      167.5       8091.8
GR   166.7    8833.0     164.4      9176.9      159.4       9181.9      159.4       9191.9      164.4       9201.9
GR   165.     9210.      180.       9300.

NH   4.       .045       4927.8     .065        5026.0      .05         7184.5      .045        9183.
X1   216.0    30.0       4927.8     5026.0      377.4       490.        647.6
X3                                  4927.8                  5026.0
GR   173.5    3096.6     172.5      3131.8      167.1       3148.7      169.0       3648.8      172.3       4651.7
GR   173.9    4663.3     175.6      4927.8      157.7       4989.0      157.7       5000.0      157.7       5009.3
GR   174.8    5026.0     174.8      5066.4      174.8       5210.7      173.3       6136.0      174.1       7146.0
GR   173.6    7165.9     175.0      7184.5      174.6       7216.0      173.1       7226.2      173.1       7239.9
GR   175.4    7253.5     174.8      7289.2      170.8       7307.6      172.8       7320.4      168.4       7900.4
GR   166.1    8897.1     164.0      8912.1      165.9       8956.8      171.0       9033.0      180.        9183.

NH   4.       .05        4945.7     .065        5057.2      .05         7079.8      .045        9325.7
X1   218.0    29.0       4945.7     5057.2      538.6       793.3       703.9
X3                                  4918.7                  5057.2
GR   174.1    3087.6     172.7      3113.6      169.9       3122.2      169.1       3188.5      172.7       4406.6
GR   175.2    4809.1     176.2      4910.9      178.6       4918.7      178.0       4945.7      158.2       4991.7
GR   158.2    5000.0     158.2      5010.1      176.3       5057.2      176.3       5200.9      175.7       6505.5
GR   178.3    6943.2     178.3      6977.0      177.0       6986.2      177.0       6998.7      178.7       7013.2
GR   177.6    7063.5     174.3      7068.4      176.9       7079.8      169.9       8384.5      169.4       9192.3
GR   167.7    9197.5     169.9      9207.7      170.2       9250.9      191.9       9325.7

NH   4.       .05        4939.8     .065        5089.1      .12         6776.6      .045        9648.2
X1   220.0    28.0       4939.8     5089.1      817.4       792.2       832.9
X3                                  4859.5                  5089.1
GR   174.3    3242.6     174.3      3282.7      169.3       3310.5      170.7       3324.3      179.6       4815.6
GR   180.9    4859.5     179.9      4939.8      159.3       4987.3      159.3       5000.0      159.3       5020.1
GR   180.3    5089.1     177.8      5755.7      180.1       6769.5      181.5       6776.6      181.5       6801.1
GR   179.5    6817.7     179.4      6827.1      182.0       6849.6      181.6       6884.0      178.0       6905.4
GR   179.8    6916.3     172.6      8522.3      174.3       9384.1      170.3       9396.8      170.3       9400.3
GR   174.2    9406.0     186.4      9458.5      195.4       9648.2

NH   4.       .05        4955.0     .065        5072.1      .12         6451.3      .045        9633.8
X1   222.0    28.0       4955.0     5072.1      857.3       703.5       806.7
X3                                  4909.6                  5072.1
GR   174.6    3268.0     174.6      3297.7      171.2       3312.3      176.8       4408.9      181.0       4902.0
GR   183.2    4909.6     182.9      4955.0      160.4       4986.9      160.4       5000.0      160.4       5025.7
GR   181.8    5072.1     180.9      5247.9      182.4       6451.3      182.4       6475.6      183.8       6489.5
GR   183.7    6528.2     181.9      6567.0      181.4       6795.3      180.0       6799.5      175.2       8299.1
GR   176.0    8967.4     174.9      8975.3      176.6       8982.3      183.6       9492.3      199.1       9524.3
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GR   198.7    9569.8    201.3     9587.2    201.5     9633.8

NH   5.       .05       4251.3    .045      4949.0    .065      5064.6    .12       6351.3    .045
NH   9467.
X1   224.0    28.0      4949.0    5064.6    1117.2    416.9     900.0
X3                                4919.1              5064.6
GR   178.5    3010.0    178.5     3034.0    174.3     3052.8    178.9     4251.3    182.0     4815.1
GR   183.7    4907.2    186.4     4919.1    185.4     4949.0    164.6     4983.1    164.6     5000.0
GR   164.6    5017.8    183.7     5064.6    183.3     5241.1    183.4     6242.7    183.4     6310.1
GR   181.7    6325.2    184.7     6351.3    183.3     6386.9    181.2     6404.2    176.3     7944.5
GR   177.0    8800.6    175.9     8808.5    177.6     8815.5    184.6     9325.5    199.1     9357.5
GR   198.7    9403.0    201.3     9420.4    201.5     9467.0

  D/S Highway 101

NC   .045     .05       .065
QT   1.       14400.
X1   226.0    20.0      4945.5    5060.4    887.0     400.      1290.     .87
X3                                4559.28             4691.68
GR   178.4    2224.1    178.7     2251.1    175.2     2267.7    178.0     3416.3    179.1     3518.1
GR   175.2    3601.8    177.5     3609.1    182.3     4401.4    184.9     4591.6    186.8     4722.8
GR   187.4    4908.2    185.3     4945.5    165.7     4983.6    165.7     5000.0    165.7     5031.5
GR   186.3    5060.4    177.5     5116.9    176.7     5233.8    185.6     5288.4    184.6     5685.8

  D/S Face Northbound Highway 101 Bridge
  End Levee Failure

NC                                .3        .5
X1   228.0    9.0       4946.5    5080.5    71.7      71.7      71.7      .87
X3   10.                          4882.27             4992.27
GR   186.2    4405.9    188.9     4893.6    190.4     4946.5    167.0     4955.2    167.0     5000.0
GR   167.0    5062.0    191.0     5080.5    186.7     5358.9    184.9     5717.5

  U/S Face Northbound Highway 101 Bridge

NC   .02      .02       .016
SB   1.25     1.56      2.6                 110.      7.2       2200.     0.

       NORTHBOUND HIGHWAY 101

X1   230.0    13.0      4942.7    5078.2    58.       58.       58.       .87
X2                      1.        188.5     191.5                         2.0       .87
X3   10.                          4886.09             4996.09
BT   -13.0    4435.3    185.8     184.1     4492.3    186.4     184.6     4885.5    190.7     190.2
BT            4942.7    191.5     191.3     4942.8    191.5     188.5     4954.0    191.7     188.5
BT            5000.0    192.4     188.5     5063.8    191.8     188.5     5078.1    191.6     188.5
BT            5078.2    191.6     190.3     5314.8    189.2     187.8     5762.1    185.2     185.0
BT            5764.5    185.2     184.2
GR   184.1    4435.3    184.6     4492.3    190.2     4885.5    191.3     4942.7    191.2     4942.8
GR   167.6    4954.0    167.6     5000.0    167.6     5063.8    190.2     5078.1    190.3     5078.2
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GR   187.8    5314.8    185.0     5762.1     184.2      5764.5

  D/S Face Southbound Highway 101 Bridge

X1   232.     17.       4957.7    5073.1     77.        77.        77.
X3   10.                          4957.7                5073.1
GR   191.0    4957.7    168.4     4957.71    168.4      4983.7     188.5     4983.71    188.5     4985.5
GR   168.4    4985.6    168.4     5000.      168.4      5014.5     188.5     5014.51    188.5     5016.3
GR   168.4    5016.31   168.4     5045.3     188.5      5045.31    188.5     5047.1     168.4     5047.11
GR   168.4    5073.1    191.0     5073.11

  U/S Face Southbound Highway 101 Bridge

SB   1.25     1.56      2.6                  110.       7.2        2200.     0.

        SOUTHBOUND HIGHWAY 101
X1   240.0    12.0      4931.6    5079.6     47.7       47.7       47.7      .87
X2                      1.        188.5      190.5                           2.0       .87
X3   10.                          4886.09               4996.09
BT   -12.0    4493.2    184.7     183.7      4515.7     185.0      184.9     4856.7     189.7     186.9
BT            4931.6    190.5     183.8      4931.7     190.5      188.5     4965.2     190.7     188.5
BT            5000.0    191.0     188.5      5031.8     190.8      188.5     5079.5     190.4     188.5
BT            5079.6    190.4     187.5      5294.9     188.9      187.6     5762.4     186.1     185.5
GR   183.7    4493.2    184.9     4515.7     186.9      4856.7     183.8     4931.6     183.7     4931.7
GR   168.5    4965.2    168.5     5000.0     168.5      5031.8     187.4     5079.5     187.5     5079.6
GR   187.6    5294.9    185.5     5762.4

  U/S Highway 101

NC   .045     .045      .065
X1   242.0    19.0      4951.8    5060.3     72.2       72.2       72.2      .87
X3                                4814.                 5068.
GR   185.5    4542.3    185.0     4951.8     168.9      4980.9     168.9     5000.0     168.9     5022.9
GR   186.9    5060.3    186.1     5272.0     184.3      5319.5     183.4     5558.0     180.6     6660.6
GR   178.9    7856.7    178.7     8458.8     176.6      8465.2     176.5     8469.8     179.8     8477.2
GR   185.3    8534.1    200.0     8589.0     200.1      8616.4     198.6     8720.0

NC                                .1         .3
X1   244.0    22.0      4792.9    5042.2     137.0      410.       258.2
X3                                4792.9                5042.2
GR   186.3    4442.5    186.5     4473.1     185.2      4483.0     186.3     4495.2     186.3     4527.3
GR   185.6    4597.7    186.4     4792.9     168.9      4989.2     168.9     5000.0     168.9     5014.8
GR   186.1    5042.2    185.3     5231.4     182.7      6563.8     181.0     7390.      179.6     7610.
GR   182.9    7626.     185.7     7818.4     193.0      7844.      194.6     7907.      194.9     7954.0
GR   196.1    7974.9    195.9     8034.8
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X1   246.0    34.0      4943.3    5036.5    250.      400.      389.5
X3                                4943.3              5036.5
GR   179.3    2099.9    179.3     2122.2    175.3     2135.8    179.1     3207.4    183.7     4161.6
GR   184.8    4209.9    186.7     4218.2    186.8     4246.9    185.6     4256.8    186.0     4273.7
GR   186.0    4300.0    184.4     4313.0    185.6     4338.4    185.0     4398.7    185.3     4489.2
GR   186.7    4504.6    186.6     4529.6    185.5     4536.6    186.8     4831.9    187.5     4943.3
GR   169.3    4987.4    169.3     5000.0    169.3     5018.0    187.2     5036.5    186.3     5207.1
GR   183.8    6460.     183.1     6700.     182.5     7450.     180.8     7460.     184.1     7476.
GR   186.0    7668.     195.2     7694.     198.3     7757.     197.9     7800.

X1   248.0    27.0      4949.1    5080.3    485.0     450.      523.1
X3                                4949.1              5420.
GR   180.4    2240.4    180.4     2265.6    175.3     2278.4    180.7     3315.8    183.7     4140.6
GR   185.4    4211.4    186.9     4232.3    186.7     4263.6    190.6     4300.5    189.1     4372.1
GR   185.1    4399.6    186.8     4429.9    186.0     4469.3    187.8     4890.1    189.7     4949.1
GR   169.7    4983.5    169.7     5000.0    169.7     5017.7    187.4     5080.3    188.4     5420.
GR   184.6    7210.     184.0     7355.     182.0     7363.     185.4     7376.     186.3     7496.
GR   197.5    7549.     202.1     7587.

NC                      .06
X1   250.0    30.0      4908.2    5045.1    200.      132.1     310.2
X3                                4908.2              5082.1
GR   180.9    1870.5    180.9     1895.1    175.4     1914.2    182.4     3284.1    183.7     3696.8
GR   185.7    3731.9    185.7     3759.2    185.3     3768.5    187.8     3791.6    187.6     3824.4
GR   191.4    3862.8    190.8     3923.4    187.2     3974.4    189.9     4837.2    190.7     4908.2
GR   185.6    4930.2    181.1     4966.7    169.7     4990.9    169.7     5000.0    169.7     5018.7
GR   189.0    5045.1    189.2     5082.1    188.4     5173.1    184.6     6960.7    184.0     7105.
GR   182.0    7113.     185.4     7126.     186.3     7246.     197.5     7300.     202.1     7337.

X1   252.0    30.0      4963.9    5056.5    145.1     640.          670
X3                                4941.6              5056.5
GR   181.8    1953.8    181.8     1977.8    177.0     1996.2    181.1     2612.0    184.0     3727.5
GR   186.3    3771.5    186.3     3796.7    185.9     3807.2    190.3     3834.3    189.6     3872.7
GR   189.6    3886.1    191.0     3905.3    190.2     3986.8    188.0     4016.5    188.0     4048.7
GR   186.9    4060.0    190.8     4927.5    191.5     4941.6    191.0     4963.9    171.9     4992.8
GR   171.9    5000.0    171.9     5011.5    191.1     5056.5    189.8     5143.9    186.9     6480.
GR   189.2    6640.     194.4     6810.     199.1     7110.     201.2     7200.     203.9     7300.

X1   254.0    35.0      4927.3    5042.7    485.2     433.0     488.2
X3                                4713.3              5042.7
GR   183.2    1987.3    183.2     2015.8    177.4     2034.1    184.6     3112.4    186.8     3516.3
GR   188.0    3622.3    189.4     3631.9    189.4     3651.7    188.2     3666.6    192.3     3692.0
GR   192.3    3733.4    190.4     3759.4    193.2     3793.0    192.8     3839.7    189.5     3867.8
GR   189.5    3916.7    186.8     3928.8    188.1     4059.3    190.6     4071.9    191.9     4509.7
GR   192.6    4713.3    190.9     4722.8    191.1     4927.3    172.0     4981.4    172.0     5000.0
GR   172.0    5020.3    193.0     5042.7    191.2     5098.7    190.3     5400.     190.0     5710.
GR   189.7    6100.     188.4     6450.     195.7     6600.     203.3     6810.     206.6     7260.
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NC                      .05
X1   256.0    33.0      4935.4    5032.6    106.4     140.      130.4
X3                                4522.5              5032.6
GR   183.3    2049.5    183.3     2073.0    178.1     2098.1    185.9     3311.1    187.3     3567.1
GR   189.8    3643.4    189.8     3667.5    189.1     3681.9    192.4     3710.6    192.4     3750.5
GR   191.2    3779.1    193.1     3810.7    192.6     3866.2    189.1     3887.5    189.3     3930.8
GR   188.2    3936.9    188.1     4072.3    190.9     4081.4    192.6     4522.5    191.4     4719.9
GR   192.1    4935.4    174.4     4964.8    173.4     4986.9    171.3     5000.0    171.2     5014.2
GR   193.0    5032.6    191.2     5094.7    190.9     5430.     190.8     5820.     189.3     6270.
GR   193.7    6400.     185.9     6610.     208.4     7100.

X1   258.0    26.0      4940.7    5047.3    163.5     150.0     147.3
X3                                4940.7              5047.3
GR   183.3    2126.7    183.1     2158.1    178.4     2180.7    184.6     3244.4    186.6     3583.9
GR   189.0    3639.7    190.5     3696.2    193.0     3765.5    191.5     3795.2    194.1     3829.5
GR   194.6    3887.2    189.9     3905.4    189.1     4146.8    192.3     4910.9    193.1     4940.7
GR   174.0    4981.0    174.0     5000.0    174.0     5019.6    193.7     5047.3    191.8     5149.1
GR   192.0    5540.     190.5     6050.     190.7     6185.     199.3     6410.     194.8     6890.
GR   205.1    7350.

X1   260.0    30.0      4943.9    5063.9    550.      532.8     771.2
X3                                4943.9              5063.9
GR   184.8    2858.8    184.4     2868.1    182.6     2876.3    184.6     2883.9    184.6     2898.8
GR   179.6    2915.8    184.6     3847.6    186.2     3937.8    189.3     4016.1    189.2     4085.8
GR   185.8    4101.9    185.8     4112.4    188.9     4130.7    191.3     4198.1    194.3     4244.7
GR   191.7    4272.5    197.1     4377.7    189.1     4403.4    193.2     4926.6    193.4     4943.9
GR   174.5    4979.2    174.5     5000.0    174.5     5018.7    194.8     5063.9    193.8     5255.6
GR   193.2    5975.     192.9     6115.     192.1     6385.     195.8     6900.     212.5     7600.

X1   262.0    34.0      4943.0    5075.7    450.      654.0     595.2
X3                                4943.0                5110.
GR   186.0    2881.8    186.2     2915.7    181.5     2939.7    182.5     3202.9    188.4     3262.9
GR   188.5    3329.4    189.8     3416.7    187.7     3527.2    204.5     3550.5    205.0     3660.1
GR   207.3    3762.1    204.1     3803.5    205.8     3846.7    205.4     3922.7    190.6     3957.8
GR   190.6    3970.1    195.9     4003.7    195.9     4044.5    185.8     4071.5    188.3     4107.5
GR   186.2    4150.8    192.4     4901.3    192.4     4926.0    193.3     4943.0    174.7     4981.6
GR   174.6    5000.0    174.6     5036.4    193.6     5075.7    193.9     5470.     194.5     5630.
GR   193.9    5930.     202.6     6500.     202.6     7160.     215.0     8000.

X1   264.0    35.0      4904.2    5063.3    180.      118.6     187.8
X3                                4904.2              5063.3
GR   186.6    2690.0    187.0     2727.0    181.8     2752.8    183.0     2897.3    216.9     3006.3
GR   217.1    3105.6    215.7     3123.2    216.9     3153.3    214.4     3227.1    203.9     3270.1
GR   201.3    3295.2    188.6     3328.7    188.0     3426.4    195.4     3465.1    191.5     3542.8
GR   184.1    3574.1    183.6     3611.9    189.6     3666.0    190.3     3708.8    186.2     3739.5
GR   187.6    3770.7    188.5     4264.8    194.9     4882.2    196.3     4904.2    178.9     4942.8
GR   174.0    4978.8    173.6     5000.0    173.9     5026.2    194.9     5063.3    194.6     5130.6
GR   194.5    5550.     193.9     5850.     202.6     6410.     202.6     7080.     215.0     7920.
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NC                      .045
X1   266.0    36.0      4850.6    5059.2    260.      224.7     305.6
X3                                4833.9              5175.0
GR   182.7    2157.3    184.2     2199.1    217.3     2312.3    185.0     2384.2    187.6     2402.6
GR   187.6    2455.4    185.0     2469.6    184.7     2485.5    220.1     2552.9    218.1     2624.0
GR   212.4    2654.7    207.7     2740.1    186.1     2831.2    184.4     2947.2    185.4     3131.2
GR   188.8    3154.2    190.2     3215.4    191.3     3278.2    187.5     3310.5    186.5     3427.4
GR   191.1    4307.6    195.2     4790.6    195.2     4819.2    197.1     4833.9    196.5     4850.6
GR   189.4    4882.6    180.7     4966.3    175.2     4983.4    175.2     5000.0    175.2     5031.0
GR   193.5    5059.2    195.1     5175.0    194.1     5820.     196.9     6150.     202.6     6700.
GR   215.0    7500.

X1   268.0    25.0      4945.5    5085.8    260.      371.4     314.2
X3                                4937.8              5085.8
GR   189.7    2271.4    189.5     2310.6    185.3     2336.5    189.4     3051.1    191.7     3171.0
GR   188.4    3195.9    189.8     3212.3    189.8     3251.1    188.1     3268.5    193.1     4388.3
GR   195.3    4833.3    195.7     4930.1    196.7     4937.8    195.5     4945.5    175.7     4978.1
GR   175.7    5000.0    175.7     5026.9    187.1     5060.2    195.3     5085.8    194.7     5171.3
GR   194.5    5400.     194.8     5700.     196.6     5900.     202.5     6200.     215.0     7350.

X1   270.0    19.0      4892.5    5074.4    389.9     452.5         850
X3                                4892.5
GR   190.4    1627.5    190.4     1665.0    187.0     1692.6    188.4     1819.2    190.4     2396.0
GR   190.3    2437.7    188.9     2446.1    190.2     2467.8    191.1     3453.1    196.6     4562.4
GR   196.6    4892.5    190.9     4930.8    177.7     4964.8    177.7     5000.0    177.7     5049.6
GR   196.4    5074.4    195.1     5255.2    198.2     5356.4    215.0     6750.

X1   272.0    19.0      4953.2    5108.4    525.7     470.7         710
X3                                4953.2
GR   191.6    2493.1    191.7     2567.5    191.2     2575.0    194.4     3967.7    197.1     4953.2
GR   179.4    4987.7    179.4     5000.0    179.4     5015.7    188.2     5052.0    195.7     5069.2
GR   196.8    5091.5    198.8     5108.4    206.6     5655.4    216.6     6684.1    213.4     6745.1
GR   208.1    6806.6    209.0     7062.0    215.4     7079.4    214.7     7190.2

X1   274.0    22.0      4893.6    5052.1    350.      290.          810
X3                                4857.6
GR   192.1    1871.4    192.1     1917.4    191.4     1927.4    196.7     3547.0    199.8     4857.6
GR   198.8    4893.6    194.9     4916.8    191.9     4942.0    186.3     4970.8    179.6     4992.9
GR   179.6    5000.0    179.6     5016.5    209.2     5052.1    208.7     5104.3    220.6     6011.7
GR   221.2    6252.1    216.7     6319.7    214.3     6366.6    219.3     6376.5    218.3     6429.3
GR   219.9    6439.3    218.6     6479.8

X1   276.0    17.0      4898.4    5074.6    194.4     550.          520
X3                                4898.4
GR   191.1    1647.9    190.3     1729.0    190.9     1913.8    197.4     3476.9    200.5     4784.7
GR   200.7    4898.4    195.3     4942.1    187.4     4963.0    181.4     4985.1    181.4     5000.0
GR   181.4    5024.1    190.8     5053.9    215.5     5074.6    216.7     5164.1    230.8     6161.0
GR   233.7    6176.9    235.4     6276.6
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NC                      .035

        END CORPS OF ENGINEERS LEVEE

X1   278.0    18.0      4928.2    5054.5    638.9     882.2         1400
X3                                4810.8
GR   191.0    2846.7    191.8     2900.0    190.8     2917.4    200.0     4810.8    199.9     4928.2
GR   188.1    4961.0    183.6     4989.2    183.6     5000.0    183.6     5008.0    187.8     5029.3
GR   201.2    5054.5    202.2     5131.8    201.3     5480.4    200.1     5485.6    204.2     5500.8
GR   216.9    6137.1    228.8     6858.2    229.9     6930.1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1

CCHV=    0.100 CEHV=    0.300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     12.94 FEET

3470 ENCROACHMENT STATIONS =     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.14    172.34      0.00    170.00    172.47      0.13      0.00       0.00    170.60
    4007.1     126.8    3880.3       0.0     135.3    1336.1       0.0       0.0        0.0 100000.00
      0.00      0.94      2.90      0.00     0.050     0.065     0.000     0.000    150.20   4861.00
  0.000570        0.        0.        0.         0         0         4      0.00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     10.85 FEET

3470 ENCROACHMENT STATIONS =     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.16    172.66      0.00      0.00    172.87      0.21      0.38       0.03    172.00
    4773.6       2.8    4770.8       0.0       6.6    1283.6       0.0      16.5        1.7 100000.00
      0.04      0.42      3.72      0.00     0.050     0.065     0.000     0.000    150.50   4938.14
  0.000912      510.      522.      545.         1         0         0      0.00    109.38   5047.52

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.30 FEET

3470 ENCROACHMENT STATIONS =     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     20.70    173.20      0.00      0.00    173.48      0.29      0.59       0.02    174.60
    4773.6       0.0    4773.6       0.0       0.0    1110.6       0.0      30.7        2.9 100000.00
      0.07      0.00      4.30      0.00     0.000     0.065     0.000     0.000    152.50   4941.27
  0.001460      470.      516.      541.         2         0         0      0.00     88.03   5029.30

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.09 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS =     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     19.99    173.69      0.00      0.00    173.77      0.08      0.27      0.02    175.90
    4773.6       0.0    4691.7      81.8       0.0    2013.5     101.8      48.4       4.2    167.00
      0.13      0.00      2.33      0.80     0.000     0.065     0.070     0.000    153.70   4931.55
  0.000296      680.      481.      320.         2         0         0      0.00    163.38   5094.93


CCHV=    0.300 CEHV=    0.500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.02 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.47


3470 ENCROACHMENT STATIONS =     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA =       175.70 ELREA=    100000.00

   208.000     15.32    173.62      0.00      0.00    173.89      0.27      0.03      0.09    175.70
    4782.6       0.0    4782.6       0.0       0.0    1150.9       0.0      50.2       4.4 100000.00
      0.13      0.00      4.16      0.00     0.000     0.065     0.000     0.000    158.30   4962.91
  0.001368       50.       50.       50.         3         0         0      0.00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      1.56      2.60      0.00     75.00      6.00   1173.00      0.00    158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.34 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.07

CLASS A LOW FLOW

3420 BRIDGE W.S.=     173.57 BRIDGE VELOCITY=       4.54     CALCULATED CHANNEL AREA=      1054.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


 EGPRS      EGLWC      H3         QWEIR      QLOW       BAREA   TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                   AREA
     0.00     173.91       0.02         0.      4783.      1173.      1173.      175.30     177.80         0.


3470 ENCROACHMENT STATIONS =     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA =       177.90 ELREA=    100000.00


       SPRR

   210.000      15.34     173.64       0.00       0.00     173.91       0.27       0.02       0.00     177.90
    4782.6        0.0     4782.6        0.0        0.0     1152.0        0.0       51.4        4.5  100000.00
      0.14       0.00       4.15       0.00      0.000      0.016      0.000      0.000     158.30    4962.92
  0.000083        45.        45.        45.          0          0          0       0.00      75.17    5038.09


*SECNO 212.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.19


3470 ENCROACHMENT STATIONS =     4916.4    5051.8  TYPE=      1  TARGET=      135.400
   212.000      17.18     173.58       0.00       0.00     174.01       0.43       0.02       0.08     174.40
    4826.1        0.0     4826.1        0.0        0.0      920.3        0.0       53.0        4.6  100000.00
      0.14       0.00       5.24       0.00      0.000      0.065      0.000      0.000     156.40    4976.01
  0.002383        95.        65.        65.          3          0          0       0.00      75.79    5051.80


CCHV=    0.100 CEHV=    0.300
*SECNO 214.000

3470 ENCROACHMENT STATIONS =     4928.0    5051.4  TYPE=      1  TARGET=      123.400
   214.000      16.41     174.01       0.00       0.00     174.62       0.60       0.56       0.05     175.10
    5243.4        0.0     5243.4        0.0        0.0      842.2        0.0       56.9        4.9  100000.00
      0.15       0.00       6.23       0.00      0.000      0.065      0.000      0.000     157.60    4979.58
  0.003564       171.       192.       700.          2          0          0       0.00      71.82    5051.40
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 216.000

3470 ENCROACHMENT STATIONS=     4927.8    5026.0  TYPE=      1  TARGET=       98.200
   216.000     18.38    176.08      0.00       0.00    176.53      0.45       1.90       0.02     175.60
    5986.9       0.0    5986.9       0.0        0.0    1114.1       0.0       71.4        6.2 100000.00
      0.18      0.00      5.37      0.00      0.000     0.065     0.000      0.000     157.70    4927.80
  0.002512      377.      648.      490.          2         0         0       0.00      98.20    5026.00


1490 NH CARD USED
*SECNO 218.000

3470 ENCROACHMENT STATIONS=     4918.7    5057.2  TYPE=      1  TARGET=      138.500
   218.000     19.64    177.84      0.00       0.00    178.35      0.51       1.80       0.02     178.00
    7481.0       0.0    7481.0       0.0        0.0    1307.7       0.0       91.0        7.8 100000.00
      0.22      0.00      5.72      0.00      0.000     0.065     0.000      0.000     158.20    4946.08
  0.002593      539.      704.      793.          2         0         0       0.00     111.12    5057.20


1490 NH CARD USED
*SECNO 220.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47


3470 ENCROACHMENT STATIONS=     4859.5    5089.1  TYPE=      1  TARGET=      229.600
   220.000     20.29    179.59      0.00       0.00    179.89      0.30       1.52       0.02     179.90
    7991.9       0.0    7991.9       0.0        0.0    1815.9       0.0      120.8       10.3 100000.00
      0.27      0.00      4.40      0.00      0.000     0.065     0.000      0.000     159.30    4940.52
  0.001374      817.      833.      792.          2         0         0       0.00     146.23    5086.75


1490 NH CARD USED
*SECNO 222.000

3470 ENCROACHMENT STATIONS=     4909.6    5072.1  TYPE=      1  TARGET=      162.500
   222.000     20.36    180.76      0.00       0.00    181.18      0.42       1.26       0.04     182.90
    7991.9       0.0    7991.9       0.0        0.0    1533.6       0.0      151.9       12.7 100000.00
      0.31      0.00      5.21      0.00      0.000     0.065     0.000      0.000     160.40    4958.03
  0.001792      857.      807.      704.          2         0         0       0.00     111.82    5069.85
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

1490 NH CARD USED
*SECNO 224.000

3470 ENCROACHMENT STATIONS=     4919.1    5064.6  TYPE=      1  TARGET=      145.500
   224.000     18.08    182.68      0.00       0.00    183.27      0.59       2.04       0.05     185.40
    7991.9       0.0    7991.9       0.0        0.0    1296.5       0.0      181.1       15.0 100000.00
      0.35      0.00      6.16      0.00      0.000     0.065     0.000      0.000     164.60    4953.45
  0.002952     1117.      900.      417.          2         0         0       0.00     108.67    5062.12

*SECNO 226.000
3280 CROSS SECTION    226.00 EXTENDED      1.25 FEET

3470 ENCROACHMENT STATIONS=     4559.3    4691.7  TYPE=      1  TARGET=      132.400
   226.000     20.15    185.85      0.00       0.00    186.31      0.46       3.03       0.01     185.30
    7791.9       1.4    7790.4       0.0        2.3    1430.6       0.0      221.5       18.1 100000.00
      0.42      0.61      5.45      0.00      0.045     0.065     0.000      0.000     165.70    4583.21
  0.001899      887.     1290.      400.          2         0         0       0.00     107.92    4691.13

CCHV=    0.300 CEHV=    0.500
*SECNO 228.000
3280 CROSS SECTION    228.00 EXTENDED      1.31 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46

3470 ENCROACHMENT STATIONS=     4882.3    4992.3  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

   228.000     19.21    186.21      0.00       0.00    186.47      0.25       0.09       0.06 100000.00
    7791.9       0.0    7791.9       0.0        0.0    1934.8       0.0      224.3       18.3 100000.00
      0.42      0.00      4.03      0.00      0.000     0.065     0.000      0.000     167.00    4882.27
  0.000896       72.       72.       72.          2         0         0       0.00     107.32    4989.59
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	0.00	110.00	7.20	2200.00	0.00	167.00	167.00

*SECNO 230.000

3280 CROSS SECTION 230.00 EXTENDED 2.05 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.89

CLASS A LOW FLOW

3420 BRIDGE W.S.= 186.18 BRIDGE VELOCITY= 3.95 CALCULATED CHANNEL AREA= 1972.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
0.00	186.51	0.03	0.	7792.	2200.	2210.	188.50	191.50	0.

3470 ENCROACHMENT STATIONS= 4886.1 4996.1 TYPE= 1 TARGET= 110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 100000.00 ELREA= 190.30

NORTHBOUND HIGHWAY 101

230.000	18.65	186.25	0.00	0.00	186.51	0.27	0.05	0.00	100000.00
7791.9	0.0	7791.9	0.0	0.0	1885.5	0.0	226.8	18.5	190.30
0.43	0.00	4.13	0.00	0.000	0.016	0.000	0.000	167.60	4886.09
0.000059	58.	58.	58.	0	0	0	0.00	106.27	4992.36

*SECNO 232.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4957.7 5073.1 TYPE= 1 TARGET= 115.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 241.00 ELREA= 100000.00

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  SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
  Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
  TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
  SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 232.000     17.88     186.28       0.00       0.00     186.52       0.24       0.01       0.01     241.00
  7791.9       0.0     7791.9       0.0        0.0      1965.8       0.0      230.2       18.7  100000.00
    0.43      0.00       3.96      0.00      0.000      0.016      0.000      0.000     168.40    4957.70
0.000118       77.        77.       77.          2          0          0       0.00     110.01    5073.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
    1.25      1.56      2.60      0.00    110.00      7.20    2200.00     0.00    168.40    168.40

*SECNO 240.000
3280 CROSS SECTION    240.00 EXTENDED      0.81 FEET

CLASS A LOW FLOW

3420 BRIDGE W.S.=     186.24 BRIDGE VELOCITY=       4.25     CALCULATED CHANNEL AREA=      1834.

 EGPRS      EGLWC      H3        QWEIR      QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                               AREA
      0.00    186.68     0.03        0.     7792.     2200.     2066.     188.50    190.50        0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00


        SOUTHBOUND HIGHWAY 101
 240.000     17.81     186.31      0.00       0.00     186.68       0.36       0.15       0.00  100000.00
  7791.9       0.0     7791.9       0.0        0.0      1609.1       0.0      232.2       18.8  100000.00
    0.44      0.00       4.84      0.00      0.000      0.016      0.000      0.000     168.50    4886.09
0.000091       48.        48.       48.          0          0          0       0.00     110.00    4996.09


*SECNO 242.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.16


3470 ENCROACHMENT STATIONS=     4814.0    5068.0  TYPE=      1  TARGET=      254.000
 242.000     17.27     186.17      0.00       0.00     186.85       0.68       0.02       0.16     185.00
  7791.9     195.5     7596.4       0.0       94.3     1134.4       0.0      234.5       19.0     186.90
    0.44      2.07       6.70      0.00      0.045      0.065      0.000      0.000     168.90    4814.00
0.003465       72.        72.       72.          2          0          0       0.00     177.65    4991.65
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=    0.100 CEHV=    0.300
*SECNO 244.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.09


3470 ENCROACHMENT STATIONS=     4792.9    5042.2  TYPE=      1  TARGET=      249.300
   244.000     18.24    187.14      0.00      0.00    187.29      0.15      0.38      0.05    186.40
    8022.7       0.0    8022.7       0.0       0.0    2594.3       0.0     245.7      20.2 100000.00
      0.46      0.00      3.09      0.00     0.000     0.065     0.000     0.000    168.90   4792.90
  0.000838      137.      258.      410.         2         0         0      0.00    249.30   5042.20


*SECNO 246.000

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.45


3470 ENCROACHMENT STATIONS=     4943.3    5036.5  TYPE=      1  TARGET=       93.200
   246.000     18.03    187.33      0.00      0.00    188.04      0.71      0.58      0.17    187.50
    7511.7       0.0    7511.7       0.0       0.0    1114.0       0.0     262.3      21.7 100000.00
      0.48      0.00      6.74      0.00     0.000     0.065     0.000     0.000    169.30   4943.70
  0.003672      250.      390.      400.         2         0         0      0.00     92.80   5036.50


*SECNO 248.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.64


3470 ENCROACHMENT STATIONS=     4949.1    5420.0  TYPE=      1  TARGET=      470.900
   248.000     19.20    188.90      0.00      0.00    189.19      0.29      1.11      0.04    189.70
    7629.7       0.0    7201.9     427.8       0.0    1623.1     343.8     280.5      24.8    187.40
      0.51      0.00      4.44      1.24     0.000     0.065     0.045     0.000    169.70   4950.46
  0.001401      485.      523.      450.         2         0         0      0.00    469.54   5420.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 250.000

3470 ENCROACHMENT STATIONS=     4908.2    5082.1  TYPE=      1  TARGET=      173.900
   250.000      19.62     189.32       0.00       0.00     189.80       0.48       0.55       0.06     190.70
    7766.2        0.0     7761.5        4.7        0.0     1393.1        8.1      291.8       26.3     189.00
      0.53       0.00       5.57       0.58      0.000      0.060      0.045      0.000     169.70    4914.16
  0.002375       200.       310.       132.          2          0          0       0.00     167.94    5082.10

*SECNO 252.000

3470 ENCROACHMENT STATIONS=     4941.6    5056.5  TYPE=      1  TARGET=      114.900
   252.000      19.16     191.06       0.00       0.00     191.89       0.83       1.99       0.10     191.00
    7790.2        0.0     7790.2        0.0        0.1     1066.6        0.0      310.8       28.3  100000.00
      0.55       0.02       7.30       0.00      0.045      0.060      0.000      0.000     171.90    4961.02
  0.003811       145.       670.       640.          2          0          0       0.00      95.40    5056.42

*SECNO 254.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.86

3470 ENCROACHMENT STATIONS=     4713.3    5042.7  TYPE=      1  TARGET=      329.400
   254.000      20.58     192.58       0.00       0.00     192.93       0.35       0.99       0.05     191.10
    8469.0      528.6     7940.4        0.0      330.6     1623.0        0.0      327.7       30.6  100000.00
      0.58       1.60       4.89       0.00      0.045      0.060      0.000      0.000     172.00    4713.42
  0.001297       485.       488.       433.          2          0          0       0.00     328.83    5042.25

*SECNO 256.000

3470 ENCROACHMENT STATIONS=     4522.5    5032.6  TYPE=      1  TARGET=      510.100
   256.000      21.44     192.64       0.00       0.00     193.14       0.50       0.16       0.04     192.10
    8672.9      308.0     8364.9        0.0      314.3     1452.8        0.0      333.1       31.7  100000.00
      0.59       0.98       5.76       0.00      0.045      0.050      0.000      0.000     171.20    4522.50
  0.001230       106.       130.       140.          2          0          0       0.00     509.79    5032.29

*SECNO 258.000

3470 ENCROACHMENT STATIONS=     4940.7    5047.3  TYPE=      1  TARGET=      106.600
   258.000      18.75     192.75       0.00       0.00     193.40       0.65       0.22       0.05     193.10
    8673.0        0.0     8673.0        0.0        0.0     1341.0        0.0      338.4       32.8  100000.00
      0.59       0.00       6.47       0.00      0.000      0.050      0.000      0.000     174.00    4941.46
  0.001785       164.       147.       150.          2          0          0       0.00     104.50    5045.95
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 260.000

3470 ENCROACHMENT STATIONS=     4943.9    5063.9  TYPE=      1  TARGET=      120.000
   260.000     19.58    194.08      0.00       0.00    194.60      0.52       1.19       0.01     193.40
    9036.0       0.0    9036.0       0.0        0.0    1558.1       0.0      364.0       34.8  100000.00
      0.63      0.00      5.80      0.00      0.000     0.050     0.000      0.000     174.50    4943.90
  0.001360      550.      771.      533.          2         0         0       0.00     118.40    5062.30

*SECNO 262.000

3470 ENCROACHMENT STATIONS=     4943.0    5110.0  TYPE=      1  TARGET=      167.000
   262.000     20.24    194.84      0.00       0.00    195.32      0.48       0.71       0.00     193.30
   10913.3       0.0   10862.5      50.8        0.0    1948.1      41.9      388.3       36.8     193.60
      0.66      0.00      5.58      1.21      0.000     0.050     0.045      0.000     174.60    4943.00
  0.001080      450.      595.      654.          2         0         0       0.00     167.00    5110.00

*SECNO 264.000

3470 ENCROACHMENT STATIONS=     4904.2    5063.3  TYPE=      1  TARGET=      159.100
   264.000     21.55    195.15      0.00       0.00    195.50      0.35       0.16       0.01     196.30
   11232.7       0.0   11232.7       0.0        0.0    2378.8       0.0      397.7       37.5  100000.00
      0.67      0.00      4.72      0.00      0.000     0.050     0.000      0.000     173.60    4906.74
  0.000726      180.      188.      119.          2         0         0       0.00     156.56    5063.30

*SECNO 266.000

3470 ENCROACHMENT STATIONS=     4833.9    5175.0  TYPE=      1  TARGET=      341.100
   266.000     20.21    195.41      0.00       0.00    195.71      0.30       0.21       0.00     196.50
   11301.2       0.0   11183.7     117.5        0.0    2522.0     129.1      415.2       39.0     193.50
      0.69      0.00      4.43      0.91      0.000     0.045     0.045      0.000     175.20    4855.49
  0.000660      260.      306.      225.          2         0         0       0.00     319.51    5175.00

*SECNO 268.000

3470 ENCROACHMENT STATIONS=     4937.8    5085.8  TYPE=      1  TARGET=      148.000
   268.000     19.79    195.49      0.00       0.00    196.07      0.58       0.27       0.08     195.50
   11371.7       0.0   11371.7       0.0        0.0    1867.1       0.0      431.6       40.8  100000.00
      0.71      0.00      6.09      0.00      0.000     0.045     0.000      0.000     175.70    4945.52
  0.001170      260.      314.      371.          2         0         0       0.00     140.28    5085.80
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 270.000

3470 ENCROACHMENT STATIONS=     4892.5    6750.0  TYPE=      1  TARGET=    -4892.500
   270.000      18.81     196.51       0.00       0.00     196.87       0.36       0.78       0.02     196.60
   11474.3        0.0    11346.7      127.6        0.0     2351.3      170.7      473.6       45.1     196.40
      0.75       0.00       4.83       0.75      0.000      0.045      0.045      0.000     177.70    4893.08
  0.000748       390.       850.       453.          2          0          0       0.00     408.27    5301.35

*SECNO 272.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.48

3470 ENCROACHMENT STATIONS=     4953.2    7190.2  TYPE=      1  TARGET=    -4953.200
   272.000      17.57     196.97       0.00       0.00     198.05       1.08       0.97       0.22     197.10
   11474.3        0.0    11474.3        0.0        0.0     1373.6        0.0      504.9       48.9     198.80
      0.78       0.00       8.35       0.00      0.000      0.045      0.000      0.000     179.40    4953.45
  0.003233       526.       710.       471.          3          0          0       0.00     139.50    5092.95

*SECNO 274.000

3470 ENCROACHMENT STATIONS=     4857.6    6479.8  TYPE=      1  TARGET=    -4857.600
   274.000      19.81     199.41       0.00       0.00     200.24       0.82       2.16       0.03     198.80
   11474.3        4.6    11469.7        0.0        6.6     1574.3        0.0      532.4       51.7     209.20
      0.81       0.70       7.29       0.00      0.045      0.045      0.000      0.000     179.60    4871.83
  0.002230       350.       810.       290.          2          0          0       0.00     168.49    5040.32

*SECNO 276.000

3470 ENCROACHMENT STATIONS=     4898.4    6276.6  TYPE=      1  TARGET=    -4898.400
   276.000      19.19     200.59       0.00       0.00     201.16       0.58       0.90       0.02     200.70
   11474.3        0.0    11474.3        0.0        0.0     1884.9        0.0      553.0       53.6     215.50
      0.83       0.00       6.09       0.00      0.000      0.045      0.000      0.000     181.40    4899.27
  0.001390       194.       520.       550.          2          0          0       0.00     162.83    5062.11
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 278.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4810.8 6930.1 TYPE= 1 TARGET= -4810.800

END CORPS OF ENGINEERS LEVEE

278.000	18.58	202.18	0.00	0.00	203.24	1.05	1.93	0.14	199.90
14400.0	546.2	13694.8	158.9	262.2	1623.0	204.1	613.4	63.4	201.20
0.88	2.08	8.44	0.78	0.045	0.035	0.045	0.000	183.60	4810.80
0.001398	639.	1400.	882.	2	0	0	0.00	674.61	5493.32

TN Sec 278 to 276 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1453.2	2.01	2.18	1.09	1400.0	1332.1

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2925.67	2925.59	0.00	2925.67	2925.59	0.00	41	200.589	202.182	276.000	278.000

TN Sec 276 to 274 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	520.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2925.67	2925.59	0.00	41	199.413	200.589	274.000	276.000

TN Sec 274 to 272 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	810.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2925.67	2925.59	0.00	41	196.971	199.413	272.000	274.000

TN Sec 272 to 270 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	770.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2925.67	2925.59	0.00	41	196.512	196.971	270.000	272.000

TW Sec 270 to 268 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2925.67	2925.59	0.00	41	195.489	196.512	268.000	270.000

TN Sec 270 to 268 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
128.1	0.79	0.19	0.15	850.0	850.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
102.64	100.88	1.73	3028.30	3026.46	0.06	41	195.489	196.512	268.000	270.000

TW Sec 268 to 266 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3028.30	3026.46	0.06	41	195.410	195.489	266.000	268.000

TN Sec 268 to 266 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
82.3	0.86	0.31	0.25	330.0	330.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
70.50	70.43	0.09	3098.80	3096.90	0.06	41	195.410	195.489	266.000	268.000

TW Sec 266 to 264 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3098.80	3096.90	0.06	41	195.150	195.410	264.000	266.000

TN Sec 266 to 264 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
88.2	0.77	0.31	0.28	315.0	315.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
68.50	68.23	0.39	3167.29	3165.12	0.07	41	195.150	195.410	264.000	266.000

TW Sec 264 to 262 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
289.72	288.38	0.46	3457.01	3453.50	0.10	41	194.838	195.150	262.000	264.000

TN Sec 264 to 262 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
35.3	0.83	0.34	0.29	120.0	120.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
29.70	29.31	1.33	3486.71	3482.80	0.11	41	194.838	195.150	262.000	264.000

TW Sec 262 to 260 Left (Portion Returns at Sec 244.)

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1858.44	1857.60	0.05	5345.14	5340.40	0.09	41	194.081	194.838	260.000	262.000

TN Sec 262 to 260 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
30.3	0.61	0.34	0.17	560.0	179.1

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
18.82	18.38	2.37	5363.96	5358.78	0.10	41	194.081	194.838	260.000	262.000

TW Sec 260 to 258 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
363.02	362.36	0.18	5726.98	5721.14	0.10	41	192.748	194.081	258.000	260.000

TW Sec 260 to 258 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5726.98	5721.14	0.10	41	192.748	194.081	258.000	260.000

TW Sec 258 to 256 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.13	0.13	0.39	5727.11	5721.26	0.10	41	192.638	192.748	256.000	258.000

TW Sec 258 to 256 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5727.11	5721.26	0.10	41	192.638	192.748	256.000	258.000

TW Sec 256 to 254 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
203.86	203.23	0.31	5930.97	5924.49	0.11	41	192.577	192.638	254.000	256.000

TW Sec 256 to 254 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5930.97	5924.49	0.11	41	192.577	192.638	254.000	256.000

TW Sec 254 to 252 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
678.79	677.81	0.14	6609.76	6602.30	0.11	41	191.064	192.577	252.000	254.000

TW Sec 254 to 252 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6609.76	6602.30	0.11	41	191.064	192.577	252.000	254.000

TW Sec 252 to 250 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6609.76	6602.30	0.11	41	189.318	191.064	250.000	252.000

TW Sec 252 to 250 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
24.00	21.69	10.08	6633.76	6624.00	0.15	41	189.318	191.064	250.000	252.000

TW Sec 250 to 248 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6633.76	6624.00	0.15	41	188.904	189.318	248.000	250.000

TW Sec 250 to 248 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
136.52	132.48	3.01	6770.28	6756.47	0.20	41	188.904	189.318	248.000	250.000

TW Sec 248 to 246 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6770.28	6756.47	0.20	41	187.335	188.904	246.000	248.000

TN Sec 248 to 246 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
122.9	0.94	0.50	0.32	385.0	385.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
118.05	115.37	2.30	6888.33	6871.85	0.24	41	187.335	188.904	246.000	248.000

TW Sec 246 to 244 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6888.33	6871.85	0.24	41	187.141	187.335	244.000	246.000

TN Sec 246 to 244 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
235.1	1.60	1.04	0.59	400.0	400.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
380.98	375.39	1.48	7269.31	7247.24	0.30	41	187.141	187.335	244.000	246.000

TW Sec 244 to 242 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7269.31	7247.24	0.30	41	186.173	187.141	242.000	244.000

TW Sec 244 to 242 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
230.88	227.53	1.46	7500.19	7474.76	0.34	41	186.173	187.141	242.000	244.000

TW Sec 242 to 240 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	186.312	186.173	240.000	242.000

TW Sec 228 to 226 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	185.852	186.214	226.000	228.000

TW Sec 228 to 226 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	185.852	186.214	226.000	228.000

TW Sec 226 to 224 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	182.684	185.852	224.000	226.000

TN Sec 226 to 224 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	1200.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	182.684	185.852	224.000	226.000

TW Sec 224 to 222 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	180.763	182.684	222.000	224.000

TN Sec 224 to 222 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	900.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	180.763	182.684	222.000	224.000

TW Sec 222 to 220 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	179.587	180.763	220.000	222.000

TN Sec 222 to 220 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	807.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	179.587	180.763	220.000	222.000

TW Sec 220 to 218 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7500.19	7474.76	0.34	41	177.842	179.587	218.000	220.000

TN Sec 220 to 218 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
379.6	1.27	1.54	0.77	720.0	492.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
510.87	483.01	5.61	8011.06	7957.77	0.67	41	177.842	179.587	218.000	220.000

TW Sec 218 to 216 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
125.07	95.56	26.75	8136.13	8053.33	1.02	41	176.084	177.842	216.000	218.000

TN Sec 218 to 216 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1088.0	1.18	1.54	1.41	770.0	770.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1369.00	1287.55	6.13	9505.13	9340.88	1.74	41	176.084	177.842	216.000	218.000

TW Sec 216 to 214 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
58.07	43.55	28.58	9563.20	9384.43	1.89	41	174.014	176.084	214.000	216.000

TN Sec 216 to 214 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
710.3	0.87	1.28	0.90	790.0	790.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
685.46	618.05	10.34	10248.67	10002.48	2.43	41	174.014	176.084	214.000	216.000

TW Sec 214 to 212 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10248.67	10002.48	2.43	41	173.579	174.014	212.000	214.000

TN Sec 214 to 212 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
265.3	1.43	2.28	1.40	190.0	190.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
417.26	379.16	9.57	10665.93	10381.64	2.70	41	173.579	174.014	212.000	214.000

TW Sec 212 to 210 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10665.93	10381.64	2.70	41	173.643	173.579	210.000	212.000

TN Sec 212 to 210 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
32.4	1.25	2.28	1.14	65.3	28.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
43.56	40.32	7.73	10709.49	10421.95	2.72	41	173.643	173.579	210.000	212.000

TW Sec 208 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10709.49	10421.95	2.72	41	173.689	173.624	206.000	208.000

TW Sec 208 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
8.99	6.58	31.01	10718.48	10428.53	2.74	41	173.689	173.624	206.000	208.000

TW Sec 206 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10718.48	10428.53	2.74	41	173.195	173.689	204.000	206.000

TW Sec 206 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10718.48	10428.53	2.74	41	173.195	173.689	204.000	206.000

TW Sec 204 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10718.48	10428.53	2.74	41	172.659	173.195	202.000	204.000

TW Sec 204 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	10718.48	10428.53	2.74	41	172.659	173.195	202.000	204.000

TW Sec 202 to 200 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
703.39	619.71	12.65	11421.87	11048.24	3.33	41	172.341	172.659	200.000	202.000

TW Sec 202 to 200 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
63.07	39.13	46.85	11484.95	11087.37	3.52	41	172.341	172.659	200.000	202.000

THIS RUN EXECUTED 30APR96 10:45:34

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 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS - CASE 4

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	200.000	0.00	0.00	0.00	150.20	4007.10	172.34	0.00	172.47	5.70	2.90	1471.42	1677.76
	202.000	521.90	0.00	0.00	150.50	4773.57	172.66	0.00	172.87	9.12	3.72	1290.14	1581.00
	204.000	516.30	0.00	0.00	152.50	4773.57	173.20	0.00	173.48	14.60	4.30	1110.56	1249.17
*	206.000	480.70	0.00	0.00	153.70	4773.57	173.69	0.00	173.77	2.96	2.33	2115.30	2774.49
*	208.000	50.00	0.00	0.00	158.30	4782.56	173.62	0.00	173.89	13.68	4.16	1150.90	1293.08
*	210.000	45.40	177.80	175.30	158.30	4782.56	173.64	0.00	173.91	0.83	4.15	1152.00	5260.29
*	212.000	65.30	0.00	0.00	156.40	4826.12	173.58	0.00	174.01	23.83	5.24	920.32	988.63
	214.000	191.80	0.00	0.00	157.60	5243.38	174.01	0.00	174.62	35.64	6.23	842.17	878.29
	216.000	647.60	0.00	0.00	157.70	5986.92	176.08	0.00	176.53	25.12	5.37	1114.15	1194.49
	218.000	703.90	0.00	0.00	158.20	7480.99	177.84	0.00	178.35	25.93	5.72	1307.65	1469.06
*	220.000	832.90	0.00	0.00	159.30	7991.86	179.59	0.00	179.89	13.74	4.40	1815.93	2155.98
	222.000	806.70	0.00	0.00	160.40	7991.86	180.76	0.00	181.18	17.92	5.21	1533.57	1887.85
	224.000	900.00	0.00	0.00	164.60	7991.86	182.68	0.00	183.27	29.52	6.16	1296.47	1470.81
	226.000	1290.00	0.00	0.00	165.70	7791.86	185.85	0.00	186.31	18.99	5.45	1432.96	1787.91
*	228.000	71.70	0.00	0.00	167.00	7791.86	186.21	0.00	186.47	8.96	4.03	1934.80	2603.56
*	230.000	58.00	191.50	188.50	167.60	7791.86	186.25	0.00	186.51	0.59	4.13	1885.54	10129.63
	232.000	77.00	0.00	0.00	168.40	7791.86	186.28	0.00	186.52	1.18	3.96	1965.81	7164.43

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	240.000	47.70	190.50	188.50	168.50	7791.86	186.31	0.00	186.68	0.91	4.84	1609.07	8148.20
*	242.000	72.20	0.00	0.00	168.90	7791.86	186.17	0.00	186.85	34.65	6.70	1228.74	1323.63
*	244.000	258.20	0.00	0.00	168.90	8022.74	187.14	0.00	187.29	8.38	3.09	2594.29	2771.78
*	246.000	389.50	0.00	0.00	169.30	7511.67	187.33	0.00	188.04	36.72	6.74	1114.00	1239.61
*	248.000	523.10	0.00	0.00	169.70	7629.72	188.90	0.00	189.19	14.01	4.44	1966.89	2038.47
	250.000	310.20	0.00	0.00	169.70	7766.24	189.32	0.00	189.80	23.75	5.57	1401.18	1593.51
	252.000	670.00	0.00	0.00	171.90	7790.24	191.06	0.00	191.89	38.11	7.30	1066.74	1261.94
*	254.000	488.20	0.00	0.00	172.00	8469.03	192.58	0.00	192.93	12.97	4.89	1953.59	2351.46
	256.000	130.40	0.00	0.00	171.20	8672.89	192.64	0.00	193.14	12.30	5.76	1767.09	2472.48
	258.000	147.30	0.00	0.00	174.00	8673.02	192.75	0.00	193.40	17.85	6.47	1340.95	2053.07
	260.000	771.20	0.00	0.00	174.50	9036.04	194.08	0.00	194.60	13.60	5.80	1558.07	2450.27
	262.000	595.20	0.00	0.00	174.60	10913.29	194.84	0.00	195.32	10.80	5.58	1989.96	3320.66
	264.000	187.80	0.00	0.00	173.60	11232.71	195.15	0.00	195.50	7.26	4.72	2378.85	4168.60
	266.000	305.60	0.00	0.00	175.20	11301.20	195.41	0.00	195.71	6.60	4.43	2651.04	4398.32
	268.000	314.20	0.00	0.00	175.70	11371.70	195.49	0.00	196.07	11.70	6.09	1867.12	3323.84
	270.000	850.00	0.00	0.00	177.70	11474.33	196.51	0.00	196.87	7.48	4.83	2521.99	4194.24
*	272.000	710.00	0.00	0.00	179.40	11474.33	196.97	0.00	198.05	32.33	8.35	1373.59	2017.99
	274.000	810.00	0.00	0.00	179.60	11474.33	199.41	0.00	200.24	22.30	7.29	1580.86	2429.75
	276.000	520.00	0.00	0.00	181.40	11474.33	200.59	0.00	201.16	13.90	6.09	1884.86	3077.97
	278.000	1400.00	0.00	0.00	183.60	14400.00	202.18	0.00	203.24	13.98	8.44	2089.28	3851.30

LOWER UVAS - CASE 4

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	200.000	4007.10	172.34	0.00	0.00	2.34	184.80	0.00
	202.000	4773.57	172.66	0.00	0.32	0.00	109.38	521.90
	204.000	4773.57	173.20	0.00	0.54	0.00	88.03	516.30
*	206.000	4773.57	173.69	0.00	0.49	0.00	163.38	480.70
*	208.000	4782.56	173.62	0.00	-0.06	0.00	75.19	50.00
*	210.000	4782.56	173.64	0.00	0.02	0.00	75.17	45.40
*	212.000	4826.12	173.58	0.00	-0.06	0.00	75.79	65.30
	214.000	5243.38	174.01	0.00	0.44	0.00	71.82	191.80
	216.000	5986.92	176.08	0.00	2.07	0.00	98.20	647.60
	218.000	7480.99	177.84	0.00	1.76	0.00	111.12	703.90
*	220.000	7991.86	179.59	0.00	1.75	0.00	146.23	832.90
	222.000	7991.86	180.76	0.00	1.18	0.00	111.82	806.70
	224.000	7991.86	182.68	0.00	1.92	0.00	108.67	900.00
	226.000	7791.86	185.85	0.00	3.17	0.00	107.92	1290.00
*	228.000	7791.86	186.21	0.00	0.36	0.00	107.32	71.70
*	230.000	7791.86	186.25	0.00	0.03	0.00	106.27	58.00
	232.000	7791.86	186.28	0.00	0.03	0.00	110.01	77.00
	240.000	7791.86	186.31	0.00	0.03	0.00	110.00	47.70
*	242.000	7791.86	186.17	0.00	-0.14	0.00	177.65	72.20
*	244.000	8022.74	187.14	0.00	0.97	0.00	249.30	258.20
*	246.000	7511.67	187.33	0.00	0.19	0.00	92.80	389.50
*	248.000	7629.72	188.90	0.00	1.57	0.00	469.54	523.10
	250.000	7766.24	189.32	0.00	0.41	0.00	167.94	310.20
	252.000	7790.24	191.06	0.00	1.75	0.00	95.40	670.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	254.000	8469.03	192.58	0.00	1.51	0.00	328.83	488.20
	256.000	8672.89	192.64	0.00	0.06	0.00	509.79	130.40
	258.000	8673.02	192.75	0.00	0.11	0.00	104.50	147.30
	260.000	9036.04	194.08	0.00	1.33	0.00	118.40	771.20
	262.000	10913.29	194.84	0.00	0.76	0.00	167.00	595.20
	264.000	11232.71	195.15	0.00	0.31	0.00	156.56	187.80
	266.000	11301.20	195.41	0.00	0.26	0.00	319.51	305.60
	268.000	11371.70	195.49	0.00	0.08	0.00	140.28	314.20
	270.000	11474.33	196.51	0.00	1.02	0.00	408.27	850.00
*	272.000	11474.33	196.97	0.00	0.46	0.00	139.50	710.00
	274.000	11474.33	199.41	0.00	2.44	0.00	168.49	810.00
	276.000	11474.33	200.59	0.00	1.18	0.00	162.83	520.00
	278.000	14400.00	202.18	0.00	1.59	0.00	674.61	1400.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    206.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    212.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    220.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    228.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    230.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    242.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    244.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    248.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    254.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    272.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: case5a.HC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    30APR96    TIME   10:45:44 *
*******************************************
```


```
****************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
****************************************
```


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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX     XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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::::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::::
:::                                        :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                        :::
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::::::::::::::::::::::::::::::::::::::::::::::
```

==========
H A E S T A D M E T H O D S
==========

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS RUN EXECUTED 30APR96 10:45:44

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************



SPLIT FLOW BEING PERFORMED


SF      MODEL SPILL FROM PERCHED CHANNEL FAILING UPPER RIGHT LEVEE


JC      LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.            40.     -1.     36.

TN  Sec 278 to 276 Left  ***
NS2.    276.    278.    -1.     .045    .00331
NG0.    200.7      1400.200.0

TN  Sec 276 to 274 Left
NS2.    274.    276.    -1.     .045    .00206
NG0.    199.8       520.200.7

TN  Sec 274 to 272 Left
NS2.    272.    274.    -1.     .045    .00255
NG0.    197.1       810.199.8

TN  Sec 272 to 270 Left
NS2.    270.    272.    -1.     .045    .00385
NG0.    196.6       770.197.1

TW  Sec 270 to 268 Left
WS2.    268.    270.    -1.     2.6
WC0.    196.7       850.196.6

TN  Sec 270 to 268 Right
NS2.    268.    270.    -1.     .045    .00710
NG0.    195.3       850.196.4

TW  Sec 268 to 266 Left
WS2.    266.    268.    -1.     2.6
WC0.    197.1   285.    196.7

TN  Sec 268 to 266 Right
NS2.    266.    268.    -1.     .045    .00428
NG0.    195.1   330.    195.3
```

```
TW  Sec 266 to 264 Left
WS2.    264.    266.    -1.     2.6
WC0.    196.3   275.    197.1

TN  Sec 266 to 264 Right
NS2.    264.    266.    -1.     .045    .003
NG0.    194.9   315.    195.1

TW  Sec 264 to 262 Left
WS2.    262.    264.    -1.     2.6
WC0.    193.3   254.    196.3

TN  Sec 264 to 262 Right
NS2.    262.    264.    -1.     .045    .00323
NG0.    194.5   120.    194.9

TW  Sec 262 to 260 Left  (Portion Returns at Sec 244.)
WS2.    260.    262.    244.    2.6
WC0.    193.4   600.    193.3

TN  Sec 262 to 260 Right
NS2.    260.    262.    -1.     .045    .00361
NG0.    194.8   560.    194.5

TW  Sec 260 to 258 Left
WS2.    258.    260.    -1.     2.6
WC0.    193.1   940.    193.4

TN  Sec 260 to 258 Right (LEVEE FAILS)
NS2.    258.    260.    -1.     .045    .0122
NG0.    191.8   860.    194.8

TW  Sec 258 to 256 Left
WS2.    256.    258.    -1.     2.6
WC0.    192.6   164.    193.1

TN  Sec 258 to 256 Right (LEVEE FAILS)
NS2.    256.    258.    -1.     .045    .0098
NG0.    191.2   150.    191.8

TW  Sec 256 to 254 Left
WS2.    254.    256.    -1.     2.6
WC0.    191.1   106.    192.6

TN  Sec 256 to 254 Right (LEVEE FAILS)
NS2.    254.    256.    -1.     .045    .0019
NG0.    191.2   130.    191.2

TW  Sec 254 to 252 Left
WS2.    252.    254.    -1.     2.6
WC0.    191.5   470.    191.1
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```
TN  Sec 254 to 252 Right (LEVEE FAILS)
NS2.    252.    254.    -1.     .045    .0026
NG0.    189.8   470.    191.2

TW  Sec 252 to 250 Left
WS2.    250.    252.    -1.     2.6
WC0.    190.7       670.191.5

TN  Sec 252 to 250 Right (LEVEE FAILS)
NS2.    250.    252.    -1.     .045    .0021
NG0.    188.4       670.189.8

TW  Sec 250 to 248 Left
WS2.    248.    250.    -1.     2.6
WC0.    189.7   350.    190.7

TN  Sec 250 to 248 Right (LEVEE FAILS)
NS2.    248.    250.    -1.     .045    .0021
NG0.    188.4   280.    188.4

TW  Sec 248 to 246 Left
WS2.    246.    248.    -1.     0.0
WC0.    187.5   450.    189.7

TN  Sec 248 to 246 Right
NS2.    246.    248.    -1.     .045    .00370
NG0.    187.2   385.    188.4

TW  Sec 246 to 244 Left
WS2.    244.    246.    -1.     0.0
WC0.    186.4   355.    187.5

TN  Sec 246 to 244 Right
NS2.    244.    246.    -1.     .045    .00475
NG0.    186.1   400.    187.2

TW  Sec 244 to 242 Left
WS2.    242.    244.    -1.     0.0
WC0.    185.0   200.    186.4

TN  Sec 244 to 242 Right (LEVEE FAILS)
NS2.    242.    244.    -1.     .045    .0126
NG0.    185.5   350.    186.1

TN  Sec 242 to 240 Right (LEVEE FAILS)
NS2.    240.    242.    -1.     .045    .0126
NG0.    187.5   72.2    185.5

TW  Sec 228 to 226 Left
WS2.    226.    228.    -1.     2.6
WC0.    187.4   71.7    190.4
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```
TW  Sec 228 to 226 Right
WS2.    226.    228.    -1.     2.6
WC0.    186.3   71.7    191.0

TW  Sec 226 to 224 Left
WS2.    224.    226.    -1.     2.6
WC0.    186.4   950.    187.4

TN  Sec 226 to 224 Right
NS2.    224.    226.    -1.     .09     .079
NG0.    183.7       1300.186.3

TW  Sec 224 to 222 Left
WS2.    222.    224.    -1.     2.6
WC0.    183.2        900.186.4

TW  Sec 224 to 222 Right
WS2.    222.    224.    -1.     2.6
WC0.    181.8        900.183.7

TW  Sec 222 to 220 Left
WS2.    220.    222.    -1.     2.6
WC0.    180.9   790.    183.2

TW  Sec 222 to 220 Right
WS2.    220.    222.    -1.     2.6
WC0.    180.3   807.    181.8

TW  Sec 220 to 218 Left
WS2.    218.    220.    -1.     2.6
WC0.    178.6   800.    180.9

TW  Sec 220 to 218 Right
WS2.    218.    220.    -1.     2.6
WC0.    177.4   720.    180.3

TW  Sec 218 to 216 Left
WS2.    216.    218.    -1.     2.6
WC0.    175.6   700.    178.6

TW  Sec 218 to 216 Right
WS2.    216.    218.    -1.     2.6
WC0.    177.2   770.    177.4

TW  Sec 216 to 214 Left
WS2.    214.    216.    -1.     2.6
WC0.    176.1   660.    175.6

TW  Sec 216 to 214 Right
WS2.    214.    216.    -1.     2.6
WC0.    173.5   790.    177.2
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TW  Sec 214 to 212 Left
WS2.    212.    214.    -1.     2.6
WC0.    177.8   190.    176.1

TW  Sec 214 to 212 Right
WS2.    212.    214.    -1.     2.6
WC0.    173.9   190.    173.5

TW  Sec 212 to 210 Left
WS2.    210.    212.    -1.     2.6
WC0.    178.2   94.5    177.8

TW  Sec 212 to 210 Right
WS2.    210.    212.    -1.     2.6
WC0.    176.6   65.3    173.9

TW  Sec 208 to 206 Left
WS2.    206.    208.    -1.     2.6
WC0.    177.5   50.     178.1

TW  Sec 208 to 206 Right
WS2.    206.    208.    -1.     2.6
WC0.    175.5   50.     173.0

TW  Sec 206 to 204 Left
WS2.    204.    206.    -1.     2.6
WC0.    174.6   460.    177.5

TW  Sec 206 to 204 Right
WS2.    204.    206.    -1.     2.6
WC0.    174.1   480.    175.5

TW  Sec 204 to 202 Left
WS2.    202.    204.    -1.     2.6
WC0.    173.1   469.5   174.6

TW  Sec 204 to 202 Right
WS2.    202.    204.    -1.     2.6
WC0.    173.3   540.8   174.1

TW  Sec 202 to 200 Left
WS2.    200.    202.    -1.     2.6
WC0.    171.0   510.2   173.1

TW  Sec 202 to 200 Right
WS2.    200.    202.    -1.     2.6
WC0.    172.0   545.2   173.3
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```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( djs)  April 1996
T3      LOWER UVAS - CASE 5     CASE 5: FAIL RIGHT LEVEE ABOVE HWY 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                .00057                                170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 -1.              -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Normal Depth 1500 Feet D/S of Study Limit (SPRR)

NC   .05       .07       .065      .1        .3
QT   1.        14600.
X1   200.0     23.0      4948.8    5045.8
X3                                4861.0                    5045.8
GR   158.0     3750.0    159.2     3898.9    165.7     3917.1    165.7     3929.1    160.1     3949.3
GR   168.7     4850.4    171.0     4861.0    170.6     4948.8    161.0     4972.3    150.2     4990.5
GR   150.2     4990.5    150.2     5000.0    150.2     5014.0    172.0     5045.8    171.0     5088.4
GR   169.4     5094.4    168.3     5315.9    167.6     5541.2    166.0     5548.1    164.9     6037.9
GR   159.0     6978.6    159.9     6990.7    159.4     7051.0

X1   202.0     19.0      4958.4    5048.5    510.2     545.2     521.9
X3                                4924.1                    5048.5
GR   157.3     3450.2    158.8     3703.8    165.7     3722.0    165.6     3734.5    160.3     3755.0
GR   170.4     4845.9    171.2     4918.2    173.1     4924.1    172.0     4958.4    150.5     4988.3
GR   150.5     5000.0    150.5     5014.2    173.3     5048.5    171.7     5146.8    168.6     5687.6
GR   166.4     6120.4    159.9     7113.1    161.7     7140.5    161.8     7197.2

NC   .045
X1   204.0     17.0      4937.6    5030.1    469.5     540.8     516.3
X3                                4937.6                    5030.1
GR   158.4     3257.4    159.6     3438.6    165.4     3453.2    165.4     3471.1    161.2     3490.2
GR   171.3     4884.9    174.4     4905.8    174.6     4937.6    163.2     4967.4    152.5     4988.1
GR   152.5     5000.0    152.5     5010.9    174.1     5030.1    173.9     5065.6    171.7     5077.5
GR   170.4     5511.5    164.9     6535.9

  Expanded Flow D/S of SPRR Bridge
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```
X1   206.0    18.0       4927.5     5064.5     679.7      320.       480.7
X3                                  4901.1                5126.4
GR   160.7    3087.4     161.1      3116.1     166.2      3133.2     166.0      3149.4     162.5      3164.4
GR   171.8    4885.4     177.5      4901.1     175.9      4927.5     161.8      4953.3     153.7      4983.2
GR   153.7    5000.0     153.7      5031.8     167.0      5064.5     175.2      5101.8     175.5      5126.4
GR   172.8    5180.2     168.9      6080.1     162.6      7151.8

  D/S SPRR Bridge

NC                                  .3         .5
X1   208.0    13.0       4962.9     5038.1     50.        50.        50.
X3   10.                            4962.9                5038.1
GR   165.7    4068.7     172.2      4879.7     178.1      4911.4     175.7      4962.9     158.3      4963.0
GR   158.3    5000.0     158.3      5038.0     171.0      5038.1     173.0      5151.9     170.2      5667.3
GR   168.9    6072.1     169.1      6444.9     163.6      7128.3

NC   .02      .02        .016

  SPRR Bridge

SB   0.9      1.56       2.6                   75.        6.         1173.      0.

        SPRR

X1   210.0    14.0       4962.9     5038.1     45.4       45.4       45.4
X2                       1.         175.3      177.8                           1.33
X3   10.                            4962.9                5038.1
BT   -14.0    4142.1     175.5      165.0      4856.7     178.4      172.4      4914.7     178.4      178.2
BT            4961.5     178.4      178.0      4962.9     178.4      177.9      4963.0     180.3      175.3
BT            5000.0     180.3      175.3      5038.0     180.3      175.3      5038.1     178.3      176.5
BT            5055.1     178.2      157.8      5055.2     178.2      176.6      5376.9     177.1      173.3
BT            5923.4     174.8      170.6      6100.7     173.9      170.3
GR   165.0    4142.1     172.4      4856.7     178.2      4914.7     178.0      4961.5     177.9      4962.9
GR   158.3    4963.      158.3      5000.0     158.3      5038.0     175.3      5038.1     176.5      5055.1
GR   176.6    5055.2     173.3      5376.9     170.6      5923.4     170.3      6100.7

  U/S SPRR Bridge

NC   .045     .045       .065
X1   212.0    27.0       4975.5     5051.8     94.5       65.3       65.3
X3                                  4916.4                5051.8
GR   166.2    3623.2     172.2      4896.8     177.8      4916.4     177.1      4950.1     174.4      4975.5
GR   156.4    4986.7     156.4      5000.0     156.4      5012.9     173.9      5051.8     173.6      5069.2
GR   171.3    5079.6     169.6      5807.2     168.5      6001.4     166.9      7709.7     166.4      8569.6
GR   167.1    8588.8     167.5      8628.9     167.1      8648.2     170.3      8664.8     168.3      8748.1
GR   164.0    8769.9     165.4      8796.4     164.       9293.      159.7      9298.      159.7      9308.
GR   164.7    9313.4     180.0      9433.
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```
NC                                  .1          .3

X1   214.0    27.0      4979.1    5051.4      170.8       700.        191.8
X3                                4928.                   5051.4
GR   171.0    3387.3    170.7     3420.4      165.9       3449.1      169.7       4461.4      170.8       4736.3
GR   172.4    4744.8    176.1     4928.0      175.1       4979.1      157.6       4986.9      157.6       5000.0
GR   157.6    5016.6    173.5     5051.4      171.3       5204.6      173.6       6737.9      169.7       7956.9
GR   169.3    7981.8    168.2     8000.8      173.1       8033.5      172.0       8069.2      167.5       8091.8
GR   166.7    8833.0    164.4     9176.9      159.4       9181.9      159.4       9191.9      164.4       9201.9
GR   165.     9210.     180.      9300.

NH   4.       .045      4927.8    .065        5026.0      .05         7184.5      .045        9183.
X1   216.0    30.0      4927.8    5026.0      377.4       490.        647.6
X3                                4927.8                  5026.0
GR   173.5    3096.6    172.5     3131.8      167.1       3148.7      169.0       3648.8      172.3       4651.7
GR   173.9    4663.3    175.6     4927.8      157.7       4989.0      157.7       5000.0      157.7       5009.3
GR   177.2    5026.0    176.1     5066.4      174.8       5210.7      173.3       6136.0      174.1       7146.0
GR   173.6    7165.9    175.0     7184.5      174.6       7216.0      173.1       7226.2      173.1       7239.9
GR   175.4    7253.5    174.8     7289.2      170.8       7307.6      172.8       7320.4      168.4       7900.4
GR   166.1    8897.1    164.0     8912.1      165.9       8956.8      171.0       9033.0      180.        9183.

NH   4.       .05       4945.7    .065        5057.2      .05         7079.8      .045        9325.7
X1   218.0    29.0      4945.7    5057.2      538.6       793.3       703.9
X3                                4918.7                  5057.2
GR   174.1    3087.6    172.7     3113.6      169.9       3122.2      169.1       3188.5      172.7       4406.6
GR   175.2    4809.1    176.2     4910.9      178.6       4918.7      178.0       4945.7      158.2       4991.7
GR   158.2    5000.0    158.2     5010.1      177.4       5057.2      176.3       5200.9      175.7       6505.5
GR   178.3    6943.2    178.3     6977.0      177.0       6986.2      177.0       6998.7      178.7       7013.2
GR   177.6    7063.5    174.3     7068.4      176.9       7079.8      169.9       8384.5      169.4       9192.3
GR   167.7    9197.5    169.9     9207.7      170.2       9250.9      191.9       9325.7

NH   4.       .05       4939.8    .065        5089.1      .12         6776.6      .045        9648.2
X1   220.0    28.0      4939.8    5089.1      817.4       792.2       832.9
X3                                4859.5                  5089.1
GR   174.3    3242.6    174.3     3282.7      169.3       3310.5      170.7       3324.3      179.6       4815.6
GR   180.9    4859.5    179.9     4939.8      159.3       4987.3      159.3       5000.0      159.3       5020.1
GR   180.3    5089.1    177.8     5755.7      180.1       6769.5      181.5       6776.6      181.5       6801.1
GR   179.5    6817.7    179.4     6827.1      182.0       6849.6      181.6       6884.0      178.0       6905.4
GR   179.8    6916.3    172.6     8522.3      174.3       9384.1      170.3       9396.8      170.3       9400.3
GR   174.2    9406.0    186.4     9458.5      195.4       9648.2

NH   4.       .05       4955.0    .065        5072.1      .12         6451.3      .045        9633.8
X1   222.0    28.0      4955.0    5072.1      857.3       703.5       806.7
X3                                4909.6                  5072.1
GR   174.6    3268.0    174.6     3297.7      171.2       3312.3      176.8       4408.9      181.0       4902.0
GR   183.2    4909.6    182.9     4955.0      160.4       4986.9      160.4       5000.0      160.4       5025.7
GR   181.8    5072.1    180.9     5247.9      182.4       6451.3      182.4       6475.6      183.8       6489.5
GR   183.7    6528.2    181.9     6567.0      181.4       6795.3      180.0       6799.5      175.2       8299.1
GR   176.0    8967.4    174.9     8975.3      176.6       8982.3      183.6       9492.3      199.1       9524.3
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GR   198.7    9569.8    201.3     9587.2    201.5     9633.8

NH   5.       .05       4251.3    .045      4949.0    .065      5064.6    .12       6351.3    .045
NH   9467.
X1   224.0    28.0      4949.0    5064.6    1117.2    416.9     900.0
X3                                4919.1              5064.6
GR   178.5    3010.0    178.5     3034.0    174.3     3052.8    178.9     4251.3    182.0     4815.1
GR   183.7    4907.2    186.4     4919.1    185.4     4949.0    164.6     4983.1    164.6     5000.0
GR   164.6    5017.8    183.7     5064.6    183.3     5241.1    183.4     6242.7    183.4     6310.1
GR   181.7    6325.2    184.7     6351.3    183.3     6386.9    181.2     6404.2    176.3     7944.5
GR   177.0    8800.6    175.9     8808.5    177.6     8815.5    184.6     9325.5    199.1     9357.5
GR   198.7    9403.0    201.3     9420.4    201.5     9467.0

  D/S Highway 101

NC   .045     .05       .065
QT   1.       14400.
X1   226.0    20.0      4945.5    5060.4    887.0     400.      1290.     .87
X3                                4559.28             4691.68
GR   178.4    2224.1    178.7     2251.1    175.2     2267.7    178.0     3416.3    179.1     3518.1
GR   175.2    3601.8    177.5     3609.1    182.3     4401.4    184.9     4591.6    186.8     4722.8
GR   187.4    4908.2    185.3     4945.5    165.7     4983.6    165.7     5000.0    165.7     5031.5
GR   186.3    5060.4    177.5     5116.9    176.7     5233.8    185.6     5288.4    184.6     5685.8

  D/S Face Northbound Highway 101 Bridge

NC                                .3        .5
X1   228.0    9.0       4946.5    5080.5    71.7      71.7      71.7      .87
X3   10.                          4882.27             4992.27
GR   186.2    4405.9    188.9     4893.6    190.4     4946.5    167.0     4955.2    167.0     5000.0
GR   167.0    5062.0    191.0     5080.5    186.7     5358.9    184.9     5717.5

  U/S Face Northbound Highway 101 Bridge

NC   .02      .02       .016
SB   1.25     1.56      2.6                 110.      7.2       2200.     0.

       NORTHBOUND HIGHWAY 101

X1   230.0    13.0      4942.7    5078.2    58.       58.       58.       .87
X2                      1.        188.5     191.5                         2.0       .87
X3   10.                          4886.09             4996.09
BT   -13.0    4435.3    185.8     184.1     4492.3    186.4     184.6     4885.5    190.7     190.2
BT            4942.7    191.5     191.3     4942.8    191.5     188.5     4954.0    191.7     188.5
BT            5000.0    192.4     188.5     5063.8    191.8     188.5     5078.1    191.6     188.5
BT            5078.2    191.6     190.3     5314.8    189.2     187.8     5762.1    185.2     185.0
BT            5764.5    185.2     184.2
GR   184.1    4435.3    184.6     4492.3    190.2     4885.5    191.3     4942.7    191.2     4942.8
GR   167.6    4954.0    167.6     5000.0    167.6     5063.8    190.2     5078.1    190.3     5078.2
GR   187.8    5314.8    185.0     5762.1    184.2     5764.5
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D/S Face Southbound Highway 101 Bridge

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X1   232.     17.        4957.7     5073.1     77.        77.        77.
X3   10.                            4957.7                77.        5073.1
GR   191.0    4957.7     168.4      4957.71    168.4      4983.7     188.5      4983.71    188.5      4985.5
GR   168.4    4985.6     168.4      5000.      168.4      5014.5     188.5      5014.51    188.5      5016.3
GR   168.4    5016.31    168.4      5045.3     188.5      5045.31    188.5      5047.1     168.4      5047.11
GR   168.4    5073.1     191.0      5073.11
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U/S Face Southbound Highway 101 Bridge

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SB   1.25     1.56       2.6                   110.       7.2        2200.      0.

        SOUTHBOUND HIGHWAY 101
X1   240.0    12.0       4931.6     5079.6     47.7       47.7       47.7       .87
X2                       1.         188.5      190.5                            2.0        .87
X3   10.                            4886.09                4996.09
BT   -12.0    4493.2     184.7      183.7      4515.7     185.0      184.9      4856.7     189.7      186.9
BT            4931.6     190.5      183.8      4931.7     190.5      188.5      4965.2     190.7      188.5
BT            5000.0     191.0      188.5      5031.8     190.8      188.5      5079.5     190.4      188.5
BT            5079.6     190.4      187.5      5294.9     188.9      187.6      5762.4     186.1      185.5
GR   183.7    4493.2     184.9      4515.7     186.9      4856.7     183.8      4931.6     183.7      4931.7
GR   168.5    4965.2     168.5      5000.0     168.5      5031.8     187.4      5079.5     187.5      5079.6
GR   187.6    5294.9     185.5      5762.4
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U/S Highway 101

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NC   .045     .045       .065
X1   242.0    19.0       4951.8     5060.3     72.2       72.2       72.2       .87
X3                                  4814.                 5068.
GR   185.5    4542.3     185.0      4951.8     168.9      4980.9     168.9      5000.0     168.9      5022.9
GR   185.5    5060.3     185.5      5272.0     184.3      5319.5     183.4      5558.0     180.6      6660.6
GR   178.9    7856.7     178.7      8458.8     176.6      8465.2     176.5      8469.8     179.8      8477.2
GR   185.3    8534.1     200.0      8589.0     200.1      8616.4     198.6      8720.0

NC                                  .1         .3
X1   244.0    22.0       4792.9     5042.2     137.0      410.       258.2
X3                                  4792.9                5042.2
GR   186.3    4442.5     186.5      4473.1     185.2      4483.0     186.3      4495.2     186.3      4527.3
GR   185.6    4597.7     186.4      4792.9     168.9      4989.2     168.9      5000.0     168.9      5014.8
GR   186.1    5042.2     185.3      5231.4     182.7      6563.8     181.0      7390.      179.6      7610.
GR   182.9    7626.      185.7      7818.4     193.0      7844.      194.6      7907.      194.9      7954.0
GR   196.1    7974.9     195.9      8034.8
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X1   246.0    34.0      4943.3    5036.5    250.      400.      389.5
X3                                4943.3              5036.5
GR   179.3    2099.9    179.3     2122.2    175.3     2135.8    179.1     3207.4    183.7     4161.6
GR   184.8    4209.9    186.7     4218.2    186.8     4246.9    185.6     4256.8    186.0     4273.7
GR   186.0    4300.0    184.4     4313.0    185.6     4338.4    185.0     4398.7    185.3     4489.2
GR   186.7    4504.6    186.6     4529.6    185.5     4536.6    186.8     4831.9    187.5     4943.3
GR   169.3    4987.4    169.3     5000.0    169.3     5018.0    187.2     5036.5    186.3     5207.1
GR   183.8    6460.     183.1     6700.     182.5     7450.     180.8     7460.     184.1     7476.
GR   186.0    7668.     195.2     7694.     198.3     7757.     197.9     7800.

X1   248.0    27.0      4949.1    5080.3    485.0     450.      523.1
X3                                4949.1              5420.
GR   180.4    2240.4    180.4     2265.6    175.3     2278.4    180.7     3315.8    183.7     4140.6
GR   185.4    4211.4    186.9     4232.3    186.7     4263.6    190.6     4300.5    189.1     4372.1
GR   185.1    4399.6    186.8     4429.9    186.0     4469.3    187.8     4890.1    189.7     4949.1
GR   169.7    4983.5    169.7     5000.0    169.7     5017.7    187.4     5080.3    188.4     5420.
GR   184.6    7210.     184.0     7355.     182.0     7363.     185.4     7376.     186.3     7496.
GR   197.5    7549.     202.1     7587.

NC                      .06
X1   250.0    30.0      4908.2    5045.1    200.      132.1     310.2
X3                                4908.2              5082.1
GR   180.9    1870.5    180.9     1895.1    175.4     1914.2    182.4     3284.1    183.7     3696.8
GR   185.7    3731.9    185.7     3759.2    185.3     3768.5    187.8     3791.6    187.6     3824.4
GR   191.4    3862.8    190.8     3923.4    187.2     3974.4    189.9     4837.2    190.7     4908.2
GR   185.6    4930.2    181.1     4966.7    169.7     4990.9    169.7     5000.0    169.7     5018.7
GR   188.4    5045.1    188.4     5082.1    188.4     5173.1    184.6     6960.7    184.0     7105.
GR   182.0    7113.     185.4     7126.     186.3     7246.     197.5     7300.     202.1     7337.

X1   252.0    30.0      4963.9    5056.5    145.1     640.          670
X3                                4941.6              5056.5
GR   181.8    1953.8    181.8     1977.8    177.0     1996.2    181.1     2612.0    184.0     3727.5
GR   186.3    3771.5    186.3     3796.7    185.9     3807.2    190.3     3834.3    189.6     3872.7
GR   189.6    3886.1    191.0     3905.3    190.2     3986.8    188.0     4016.5    188.0     4048.7
GR   186.9    4060.0    190.8     4927.5    191.5     4941.6    191.0     4963.9    171.9     4992.8
GR   171.9    5000.0    171.9     5011.5    189.8     5056.5    189.8     5143.9    186.9     6480.
GR   189.2    6640.     194.4     6810.     199.1     7110.     201.2     7200.     203.9     7300.

X1   254.0    35.0      4927.3    5042.7    485.2     433.0     488.2
X3                                4713.3              5042.7
GR   183.2    1987.3    183.2     2015.8    177.4     2034.1    184.6     3112.4    186.8     3516.3
GR   188.0    3622.3    189.4     3631.9    189.4     3651.7    188.2     3666.6    192.3     3692.0
GR   192.3    3733.4    190.4     3759.4    193.2     3793.0    192.8     3839.7    189.5     3867.8
GR   189.5    3916.7    186.8     3928.8    188.1     4059.3    190.6     4071.9    191.9     4509.7
GR   192.6    4713.3    190.9     4722.8    191.1     4927.3    172.0     4981.4    172.0     5000.0
GR   172.0    5020.3    191.2     5042.7    191.2     5098.7    190.3     5400.     190.0     5710.
GR   189.7    6100.     188.4     6450.     195.7     6600.     203.3     6810.     206.6     7260.
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NC                      .05
X1   256.0    33.0      4935.4    5032.6    106.4     140.      130.4
X3                                4522.5              5032.6
GR   183.3    2049.5    183.3     2073.0    178.1     2098.1    185.9     3311.1    187.3     3567.1
GR   189.8    3643.4    189.8     3667.5    189.1     3681.9    192.4     3710.6    192.4     3750.5
GR   191.2    3779.1    193.1     3810.7    192.6     3866.2    189.1     3887.5    189.3     3930.8
GR   188.2    3936.9    188.1     4072.3    190.9     4081.4    192.6     4522.5    191.4     4719.9
GR   192.1    4935.4    174.4     4964.8    173.4     4986.9    171.3     5000.0    171.2     5014.2
GR   191.2    5032.6    191.2     5094.7    190.9     5430.     190.8     5820.     189.3     6270.
GR   193.7    6400.     185.9     6610.     208.4     7100.

X1   258.0    26.0      4940.7    5047.3    163.5     150.0     147.3
X3                                4940.7              5047.3
GR   183.3    2126.7    183.1     2158.1    178.4     2180.7    184.6     3244.4    186.6     3583.9
GR   189.0    3639.7    190.5     3696.2    193.0     3765.5    191.5     3795.2    194.1     3829.5
GR   194.6    3887.2    189.9     3905.4    189.1     4146.8    192.3     4910.9    193.1     4940.7
GR   174.0    4981.0    174.0     5000.0    174.0     5019.6    191.8     5047.3    191.8     5149.1
GR   192.0    5540.     190.5     6050.     190.7     6185.     199.3     6410.     194.8     6890.
GR   205.1    7350.

X1   260.0    30.0      4943.9    5063.9    550.      532.8     771.2
X3                                4943.9              5063.9
GR   184.8    2858.8    184.4     2868.1    182.6     2876.3    184.6     2883.9    184.6     2898.8
GR   179.6    2915.8    184.6     3847.6    186.2     3937.8    189.3     4016.1    189.2     4085.8
GR   185.8    4101.9    185.8     4112.4    188.9     4130.7    191.3     4198.1    194.3     4244.7
GR   191.7    4272.5    197.1     4377.7    189.1     4403.4    193.2     4926.6    193.4     4943.9
GR   174.5    4979.2    174.5     5000.0    174.5     5018.7    194.8     5063.9    193.8     5255.6
GR   193.2    5975.     192.9     6115.     192.1     6385.     195.8     6900.     212.5     7600.

X1   262.0    34.0      4943.0    5075.7    450.      654.0     595.2
X3                                4943.0                 5110.
GR   186.0    2881.8    186.2     2915.7    181.5     2939.7    182.5     3202.9    188.4     3262.9
GR   188.5    3329.4    189.8     3416.7    187.7     3527.2    204.5     3550.5    205.0     3660.1
GR   207.3    3762.1    204.1     3803.5    205.8     3846.7    205.4     3922.7    190.6     3957.8
GR   190.6    3970.1    195.9     4003.7    195.9     4044.5    185.8     4071.5    188.3     4107.5
GR   186.2    4150.8    192.4     4901.3    192.4     4926.0    193.3     4943.0    174.7     4981.6
GR   174.6    5000.0    174.6     5036.4    193.6     5075.7    193.9     5470.     194.5     5630.
GR   193.9    5930.     202.6     6500.     202.6     7160.     215.0     8000.

X1   264.0    35.0      4904.2    5063.3    180.      118.6     187.8
X3                                4904.2              5063.3
GR   186.6    2690.0    187.0     2727.0    181.8     2752.8    183.0     2897.3    216.9     3006.3
GR   217.1    3105.6    215.7     3123.2    216.9     3153.3    214.4     3227.1    203.9     3270.1
GR   201.3    3295.2    188.6     3328.7    188.0     3426.4    195.4     3465.1    191.5     3542.8
GR   184.1    3574.1    183.6     3611.9    189.6     3666.0    190.3     3708.8    186.2     3739.5
GR   187.6    3770.7    188.5     4264.8    194.9     4882.2    196.3     4904.2    178.9     4942.8
GR   174.0    4978.8    173.6     5000.0    173.9     5026.2    194.9     5063.3    194.6     5130.6
GR   194.5    5550.     193.9     5850.     202.6     6410.     202.6     7080.     215.0     7920.
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NC                      .045
X1   266.0    36.0      4850.6    5059.2    260.      224.7     305.6
X3                                4833.9              5175.0
GR   182.7    2157.3    184.2     2199.1    217.3     2312.3    185.0     2384.2    187.6     2402.6
GR   187.6    2455.4    185.0     2469.6    184.7     2485.5    220.1     2552.9    218.1     2624.0
GR   212.4    2654.7    207.7     2740.1    186.1     2831.2    184.4     2947.2    185.4     3131.2
GR   188.8    3154.2    190.2     3215.4    191.3     3278.2    187.5     3310.5    186.5     3427.4
GR   191.1    4307.6    195.2     4790.6    195.2     4819.2    197.1     4833.9    196.5     4850.6
GR   189.4    4882.6    180.7     4966.3    175.2     4983.4    175.2     5000.0    175.2     5031.0
GR   193.5    5059.2    195.1     5175.0    194.1     5820.     196.9     6150.     202.6     6700.
GR   215.0    7500.

X1   268.0    25.0      4945.5    5085.8    260.      371.4     314.2
X3                                4937.8              5085.8
GR   189.7    2271.4    189.5     2310.6    185.3     2336.5    189.4     3051.1    191.7     3171.0
GR   188.4    3195.9    189.8     3212.3    189.8     3251.1    188.1     3268.5    193.1     4388.3
GR   195.3    4833.3    195.7     4930.1    196.7     4937.8    195.5     4945.5    175.7     4978.1
GR   175.7    5000.0    175.7     5026.9    187.1     5060.2    195.3     5085.8    194.7     5171.3
GR   194.5    5400.     194.8     5700.     196.6     5900.     202.5     6200.     215.0     7350.

X1   270.0    19.0      4892.5    5074.4    389.9     452.5          850
X3                                4892.5
GR   190.4    1627.5    190.4     1665.0    187.0     1692.6    188.4     1819.2    190.4     2396.0
GR   190.3    2437.7    188.9     2446.1    190.2     2467.8    191.1     3453.1    196.6     4562.4
GR   196.6    4892.5    190.9     4930.8    177.7     4964.8    177.7     5000.0    177.7     5049.6
GR   196.4    5074.4    195.1     5255.2    198.2     5356.4    215.0     6750.

X1   272.0    19.0      4953.2    5108.4    525.7     470.7          770
X3                                4953.2
GR   191.6    2493.1    191.7     2567.5    191.2     2575.0    194.4     3967.7    197.1     4953.2
GR   179.4    4987.7    179.4     5000.0    179.4     5015.7    188.2     5052.0    195.7     5069.2
GR   196.8    5091.5    198.8     5108.4    206.6     5655.4    216.6     6684.1    213.4     6745.1
GR   208.1    6806.6    209.0     7062.0    215.4     7079.4    214.7     7190.2

X1   274.0    22.0      4893.6    5052.1    350.      290.           810
X3                                4857.6
GR   192.1    1871.4    192.1     1917.4    191.4     1927.4    196.7     3547.0    199.8     4857.6
GR   198.8    4893.6    194.9     4916.8    191.9     4942.0    186.3     4970.8    179.6     4992.9
GR   179.6    5000.0    179.6     5016.5    209.2     5052.1    208.7     5104.3    220.6     6011.7
GR   221.2    6252.1    216.7     6319.7    214.3     6366.6    219.3     6376.5    218.3     6429.3
GR   219.9    6439.3    218.6     6479.8

X1   276.0    17.0      4898.4    5074.6    194.4     550.           520
X3                                4898.4
GR   191.1    1647.9    190.3     1729.0    190.9     1913.8    197.4     3476.9    200.5     4784.7
GR   200.7    4898.4    195.3     4942.1    187.4     4963.0    181.4     4985.1    181.4     5000.0
GR   181.4    5024.1    190.8     5053.9    215.5     5074.6    216.7     5164.1    230.8     6161.0
GR   233.7    6176.9    235.4     6276.6
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NC                      .035

        END CORPS OF ENGINEERS LEVEE

X1   278.0    18.0      4928.2    5054.5    638.9     882.2         1400
X3                                4810.8
GR   191.0    2846.7    191.8     2900.0    190.8     2917.4    200.0     4810.8    199.9     4928.2
GR   188.1    4961.0    183.6     4989.2    183.6     5000.0    183.6     5008.0    187.8     5029.3
GR   201.2    5054.5    202.2     5131.8    201.3     5480.4    200.1     5485.6    204.2     5500.8
GR   216.9    6137.1    228.8     6858.2    229.9     6930.1
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1

CCHV=    0.100 CEHV=    0.300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     13.23 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.43    172.63      0.00    170.00    172.76      0.13      0.00       0.00    170.60
    4181.4     168.5    4013.0       0.0     160.5    1364.1       0.0       0.0        0.0 100000.00
      0.00      1.05      2.94      0.00     0.050     0.065     0.000     0.000    150.20   4861.00
  0.000571        0.        0.        0.         0         0         4      0.00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.15 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.45    172.95      0.00      0.00    173.20      0.25      0.41       0.04    172.00
    5287.3       8.3    5279.0       0.0      14.1    1310.6       0.0      17.0        1.8 100000.00
      0.04      0.59      4.03      0.00     0.050     0.065     0.000     0.000    150.50   4928.71
  0.001049      510.      522.      545.         2         0         0      0.00    119.26   5047.98

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.67 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.07    173.57      0.00      0.00    173.90      0.33      0.67       0.02    174.60
    5288.8       0.0    5288.8       0.0       0.0    1143.7       0.0      31.7        3.0 100000.00
      0.07      0.00      4.62      0.00     0.000     0.065     0.000     0.000    152.50   4940.29
  0.001658      470.      516.      541.         2         0         0      0.00     89.34   5029.63

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.53 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     20.43    174.13      0.00      0.00    174.23      0.10      0.30      0.02    175.90
    5288.8       0.0    5186.1     102.7       0.0    2072.5     115.6      49.8       4.4    167.00
      0.12      0.00      2.50      0.89     0.000     0.065     0.070     0.000    153.70   4930.74
  0.000331      680.      481.      320.         2         0         0      0.00    166.20   5096.94


CCHV=    0.300 CEHV=    0.500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.45 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.46


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     15.75    174.05      0.00      0.00    174.37      0.31      0.03      0.11    175.70
    5311.2       0.0    5311.2       0.0       0.0    1183.2       0.0      51.8       4.5 100000.00
      0.12      0.00      4.49      0.00     0.000     0.065     0.000     0.000    158.30   4962.91
  0.001555       50.       50.       50.         3         0         0      0.00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      1.56      2.60      0.00     75.00      6.00   1173.00      0.00    158.30    158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.78 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.07

CLASS A LOW FLOW

3420 BRIDGE W.S.=     173.99 BRIDGE VELOCITY=       4.90     CALCULATED CHANNEL AREA=      1083.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


 EGPRS      EGLWC      H3         QWEIR      QLOW       BAREA   TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                    AREA
     0.00     174.39       0.02         0.     5311.      1173.     1173.      175.30     177.80         0.


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       177.90 ELREA=    100000.00


       SPRR

   210.000     15.78    174.08      0.00       0.00    174.39      0.31      0.02      0.00    177.90
    5311.2       0.0    5311.2       0.0        0.0    1184.6       0.0      53.0       4.6 100000.00
      0.13      0.00      4.48      0.00      0.000     0.016     0.000     0.000    158.30   4962.92
  0.000094       45.       45.       45.          0         0         0      0.00     75.17   5038.09


*SECNO 212.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.17


3470 ENCROACHMENT STATIONS=     4916.4    5051.8  TYPE=      1  TARGET=      135.400
   212.000     17.58    173.98      0.00       0.00    174.52      0.54      0.02      0.11    174.40
    5311.2       0.0    5311.2       0.0        0.0     900.2       0.0      54.6       4.7 100000.00
      0.13      0.00      5.90      0.00      0.000     0.065     0.000     0.000    156.40   4975.76
  0.003074       95.       65.       65.          3         0         0      0.00     76.04   5051.80


CCHV=    0.100 CEHV=    0.300
*SECNO 214.000

3470 ENCROACHMENT STATIONS=     4928.0    5051.4  TYPE=      1  TARGET=      123.400
   214.000     16.96    174.56      0.00       0.00    175.17      0.61      0.63      0.02    175.10
    5528.6       0.0    5528.6       0.0        0.0     881.2       0.0      58.5       5.0 100000.00
      0.14      0.00      6.27      0.00      0.000     0.065     0.000     0.000    157.60   4979.34
  0.003467      171.      192.      700.          2         0         0      0.00     72.06   5051.40
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 SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
 Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
 TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
 SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 216.000

3470 ENCROACHMENT STATIONS=     4927.8    5026.0  TYPE=      1  TARGET=       98.200
   216.000     18.90    176.60      0.00       0.00    177.07      0.47       1.89       0.01     175.60
    6297.6       0.0    6297.6       0.0        0.0    1145.3       0.0       73.6        6.3 100000.00
      0.17      0.00      5.50      0.00      0.000     0.065     0.000      0.000     157.70    4927.80
  0.002542      377.      648.      490.          2         0         0       0.00      97.68    5025.48


1490 NH CARD USED
*SECNO 218.000

3470 ENCROACHMENT STATIONS=     4918.7    5057.2  TYPE=      1  TARGET=      138.500
   218.000     20.10    178.30      0.00       0.00    178.74      0.45       1.67       0.00     178.00
    7148.4       0.7    7147.7       0.0        1.9    1332.7       0.0       93.6        8.1 100000.00
      0.21      0.39      5.36      0.00      0.050     0.065     0.000      0.000     158.20    4932.56
  0.002227      539.      704.      793.          2         0         0       0.00     124.63    5057.20


1490 NH CARD USED
*SECNO 220.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46


3470 ENCROACHMENT STATIONS=     4859.5    5089.1  TYPE=      1  TARGET=      229.600
   220.000     20.50    179.80      0.00       0.00    180.05      0.26       1.29       0.02     179.90
    7509.0       0.0    7509.0       0.0        0.0    1846.9       0.0      124.0       10.7 100000.00
      0.26      0.00      4.07      0.00      0.000     0.065     0.000      0.000     159.30    4940.04
  0.001159      817.      833.      792.          2         0         0       0.00     147.41    5087.45


1490 NH CARD USED
*SECNO 222.000

3470 ENCROACHMENT STATIONS=     4909.6    5072.1  TYPE=      1  TARGET=      162.500
   222.000     20.40    180.80      0.00       0.00    181.17      0.37       1.08       0.03     182.90
    7509.1       0.0    7509.1       0.0        0.0    1537.7       0.0      155.3       13.1 100000.00
      0.31      0.00      4.88      0.00      0.000     0.065     0.000      0.000     160.40    4957.98
  0.001571      857.      807.      704.          2         0         0       0.00     111.95    5069.93
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


1490 NH CARD USED
*SECNO 224.000

3470 ENCROACHMENT STATIONS=     4919.1    5064.6  TYPE=      1  TARGET=      145.500
   224.000     17.91    182.51      0.00       0.00    183.04      0.54      1.82      0.05    185.40
    7509.1       0.0    7509.1       0.0        0.0    1277.3       0.0     184.4      15.3 100000.00
      0.35      0.00      5.88      0.00      0.000     0.065     0.000     0.000    164.60   4953.74
  0.002714     1117.      900.      417.          2         0         0      0.00    107.94   5061.68


*SECNO 226.000
3280 CROSS SECTION    226.00 EXTENDED      0.87 FEET


3470 ENCROACHMENT STATIONS=     4559.3    4691.7  TYPE=      1  TARGET=      132.400
   226.000     19.77    185.47      0.00       0.00    185.90      0.43      2.84      0.01    185.30
    7309.1       0.1    7309.0       0.0        0.2    1392.8       0.0     224.0      18.4 100000.00
      0.42      0.27      5.25      0.00      0.045     0.065     0.000     0.000    165.70   4589.10
  0.001815      887.     1290.      400.          3         0         0      0.00    101.56   4690.67


CCHV=    0.300 CEHV=    0.500
*SECNO 228.000
3280 CROSS SECTION    228.00 EXTENDED      0.91 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47


3470 ENCROACHMENT STATIONS=     4882.3    4992.3  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00

   228.000     18.81    185.81      0.00       0.00    186.04      0.23      0.09      0.06 100000.00
    7309.1       0.0    7309.1       0.0        0.0    1891.4       0.0     226.7      18.6 100000.00
      0.43      0.00      3.86      0.00      0.000     0.065     0.000     0.000    167.00   4882.27
  0.000843       72.       72.       72.          2         0         0      0.00    107.05   4989.32
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.60	0.00	110.00	7.20	2200.00	0.00	167.00	167.00

*SECNO 230.000
3280 CROSS SECTION 230.00 EXTENDED 1.64 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.89

CLASS A LOW FLOW

3420 BRIDGE W.S.= 185.78 BRIDGE VELOCITY= 3.79 CALCULATED CHANNEL AREA= 1931.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
0.00	186.08	0.03	0.	7309.	2200.	2210.	188.50	191.50	0.

3470 ENCROACHMENT STATIONS= 4886.1 4996.1 TYPE= 1 TARGET= 110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 100000.00 ELREA= 190.30

NORTHBOUND HIGHWAY 101

230.000	18.24	185.84	0.00	0.00	186.08	0.24	0.04	0.00	100000.00
7309.1	0.0	7309.1	0.0	0.0	1842.3	0.0	229.2	18.7	190.30
0.43	0.00	3.97	0.00	0.000	0.016	0.000	0.000	167.60	4886.09
0.000056	58.	58.	58.	0	0	0	0.00	106.05	4992.14

*SECNO 232.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4957.7 5073.1 TYPE= 1 TARGET= 115.400

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 241.00 ELREA= 100000.00

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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 232.000      17.47     185.87       0.00       0.00     186.09       0.22       0.01       0.01     241.00
  7309.1        0.0     7309.1        0.0        0.0     1920.7        0.0      232.5       18.9 100000.00
    0.44       0.00       3.81       0.00      0.000      0.016      0.000      0.000     168.40    4957.70
0.000111        77.        77.        77.          2          0          0       0.00     110.01    5073.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
    1.25       1.56       2.60       0.00     110.00       7.20    2200.00       0.00     168.40     168.40

*SECNO 240.000
3280 CROSS SECTION    240.00 EXTENDED      0.40 FEET

CLASS A LOW FLOW

3420 BRIDGE W.S.=     185.84 BRIDGE VELOCITY=       4.08     CALCULATED CHANNEL AREA=      1792.

 EGPRS      EGLWC       H3        QWEIR      QLOW       BAREA    TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                    AREA
     0.00    186.24      0.03        0.     7309.      2200.      2066.      188.50     190.50         0.


3470 ENCROACHMENT STATIONS=     4886.1    4996.1  TYPE=      1  TARGET=      110.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=    100000.00 ELREA=    100000.00


        SOUTHBOUND HIGHWAY 101
 240.000      17.40     185.90       0.00       0.00     186.24       0.34       0.14       0.00 100000.00
  7309.1        0.0     7309.1        0.0        0.0     1563.6        0.0      234.4       19.1 100000.00
    0.44       0.00       4.67       0.00      0.000      0.016      0.000      0.000     168.50    4886.09
0.000088        48.        48.        48.          0          0          0       0.00     110.00    4996.09


*SECNO 242.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.16


3470 ENCROACHMENT STATIONS=     4814.0    5068.0  TYPE=      1  TARGET=      254.000
 242.000      16.87     185.77       0.00       0.00     186.40       0.64       0.02       0.15     185.00
  7310.4        90.4     7204.0       16.0       60.1     1118.6       20.3      236.7       19.4     185.50
    0.44       1.50       6.44       0.79      0.045      0.065      0.045      0.000     168.90    4814.00
0.003302        72.        72.        72.          2          0          0       0.00     254.00    5068.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=    0.100 CEHV=    0.300
*SECNO 244.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.03

3470 ENCROACHMENT STATIONS=     4792.9    5042.2  TYPE=      1  TARGET=      249.300
   244.000     17.79    186.69      0.00       0.00    186.84      0.15       0.39       0.05    186.40
    7620.1       0.0    7620.1       0.0        0.0    2483.5       0.0      247.5       20.9 100000.00
      0.47      0.00      3.07      0.00      0.000     0.065     0.000      0.000     168.90   4792.90
  0.000870      137.      258.      410.          2         0         0       0.00     249.30   5042.20

*SECNO 246.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.46

3470 ENCROACHMENT STATIONS=     4943.3    5036.5  TYPE=      1  TARGET=       93.200
   246.000     17.62    186.92      0.00       0.00    187.60      0.68       0.60       0.16    187.50
    7139.9       0.0    7139.9       0.0        0.0    1075.3       0.0      263.5       22.4 100000.00
      0.48      0.00      6.64      0.00      0.000     0.065     0.000      0.000     169.30   4944.72
  0.003653      250.      390.      400.          2         0         0       0.00      91.49   5036.21

*SECNO 248.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58

3470 ENCROACHMENT STATIONS=     4949.1    5420.0  TYPE=      1  TARGET=      470.900
   248.000     18.78    188.48      0.00       0.00    188.78      0.30       1.14       0.04    189.70
    7140.6       0.0    6964.2     176.4        0.0    1568.2     199.6      280.4       25.5    187.40
      0.51      0.00      4.44      0.88      0.000     0.065     0.045      0.000     169.70   4951.19
  0.001457      485.      523.      450.          2         0         0       0.00     468.81   5420.00

*SECNO 250.000

3470 ENCROACHMENT STATIONS=     4908.2    5082.1  TYPE=      1  TARGET=      173.900
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 250.000      19.23     188.93       0.00       0.00     189.37       0.44       0.55       0.04     190.70
  7196.9        0.0     7177.0       19.9        0.0     1350.9       19.7      291.1       27.0     188.40
    0.53       0.00       5.31       1.01      0.000      0.060      0.045      0.000     169.70    4915.82
0.002207       200.       310.       132.          2          0          0       0.00     166.28    5082.10

*SECNO 252.000

3470 ENCROACHMENT STATIONS=     4941.6    5056.5  TYPE=      1  TARGET=      114.900
 252.000      18.70     190.60       0.00       0.00     191.43       0.83       1.94       0.12     191.00
  7700.2        0.0     7700.2        0.0        0.0     1052.8        0.0      309.7       28.9  100000.00
    0.56       0.00       7.31       0.00      0.000      0.060      0.000      0.000     171.90    4964.51
0.003872       145.       670.       640.          2          0          0       0.00      91.99    5056.50

*SECNO 254.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.80

3470 ENCROACHMENT STATIONS=     4713.3    5042.7  TYPE=      1  TARGET=      329.400
 254.000      20.15     192.15       0.00       0.00     192.55       0.40       1.08       0.04     191.10
  8602.4      337.5     8264.9        0.0      241.1     1594.5        0.0      325.9       31.3  100000.00
    0.58       1.40       5.18       0.00      0.045      0.060      0.000      0.000     172.00    4715.77
0.001497       485.       488.       433.          2          0          0       0.00     326.93    5042.70

*SECNO 256.000

3470 ENCROACHMENT STATIONS=     4522.5    5032.6  TYPE=      1  TARGET=      510.100
 256.000      21.02     192.22       0.00       0.00     192.79       0.58       0.19       0.05     192.10
  8866.9      111.0     8755.9        0.0      153.4     1428.5        0.0      330.9       32.3  100000.00
    0.59       0.72       6.13       0.00      0.045      0.050      0.000      0.000     171.20    4586.50
0.001429       106.       130.       140.          2          0          0       0.00     446.10    5032.60

*SECNO 258.000

3470 ENCROACHMENT STATIONS=     4940.7    5047.3  TYPE=      1  TARGET=      106.600
 258.000      18.35     192.35       0.00       0.00     193.10       0.75       0.25       0.05     193.10
  9187.5        0.0     9187.5        0.0        0.0     1325.5        0.0      335.8       33.3  100000.00
    0.60       0.00       6.93       0.00      0.000      0.050      0.000      0.000     174.00    4942.28
0.002087       164.       147.       150.          3          0          0       0.00     105.02    5047.30
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  SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
  Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
  TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
  SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 260.000

3470 ENCROACHMENT STATIONS=     4943.9    5063.9  TYPE=      1  TARGET=      120.000
   260.000     19.40    193.90      0.00       0.00    194.49       0.59       1.38       0.02     193.40
    9458.8       0.0    9458.8       0.0        0.0    1537.4        0.0      361.2       35.2  100000.00
      0.63      0.00      6.15      0.00      0.000     0.050      0.000      0.000     174.50    4943.90
  0.001548      550.      771.      533.          2         0          0       0.00     118.01    5061.91

*SECNO 262.000

3470 ENCROACHMENT STATIONS=     4943.0    5110.0  TYPE=      1  TARGET=      167.000
   262.000     20.17    194.77      0.00       0.00    195.27       0.50       0.77       0.01     193.30
   11027.1       0.0   10979.7      47.4        0.0    1939.8       39.8      385.2       37.2     193.60
      0.66      0.00      5.66      1.19      0.000     0.050      0.045      0.000     174.60    4943.00
  0.001119      450.      595.      654.          2         0          0       0.00     167.00    5110.00

*SECNO 264.000

3470 ENCROACHMENT STATIONS=     4904.2    5063.3  TYPE=      1  TARGET=      159.100
   264.000     21.50    195.10      0.00       0.00    195.45       0.35       0.17       0.01     196.30
   11303.3       0.0   11303.3       0.0        0.0    2370.7        0.0      394.6       37.9  100000.00
      0.67      0.00      4.77      0.00      0.000     0.050      0.000      0.000     173.60    4906.86
  0.000743      180.      188.      119.          2         0          0       0.00     156.44    5063.30

*SECNO 266.000

3470 ENCROACHMENT STATIONS=     4833.9    5175.0  TYPE=      1  TARGET=      341.100
   266.000     20.16    195.36      0.00       0.00    195.67       0.31       0.22       0.00     196.50
   11350.0       0.0   11239.3     110.7        0.0    2512.5      123.7      412.0       39.4     193.50
      0.69      0.00      4.47      0.89      0.000     0.045      0.045      0.000     175.20    4855.70
  0.000674      260.      306.      225.          2         0          0       0.00     319.30    5175.00

*SECNO 268.000

3470 ENCROACHMENT STATIONS=     4937.8    5085.8  TYPE=      1  TARGET=      148.000
   268.000     19.75    195.45      0.00       0.00    196.03       0.58       0.28       0.08     195.50
   11397.5       0.0   11397.5       0.0        0.0    1861.3        0.0      428.3       41.2  100000.00
      0.70      0.00      6.12      0.00      0.000     0.045      0.000      0.000     175.70    4945.59
  0.001187      260.      314.      371.          2         0          0       0.00     140.21    5085.80
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 270.000

3470 ENCROACHMENT STATIONS=     4892.5    6750.0  TYPE=      1  TARGET=    -4892.500
   270.000     18.78    196.48      0.00       0.00    196.84      0.36       0.79       0.02     196.60
   11458.5       0.0   11338.3     120.2        0.0    2346.1     164.2      470.2       45.5     196.40
      0.75      0.00      4.83      0.73      0.000     0.045     0.045      0.000     177.70    4893.27
  0.000752      390.      850.      453.          2         0         0       0.00     407.15    5300.42

*SECNO 272.000

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  0.49

3470 ENCROACHMENT STATIONS=     4953.2    7190.2  TYPE=      1  TARGET=    -4953.200
   272.000     17.63    197.03      0.00       0.00    198.10      1.06       1.04       0.21     197.10
   11458.5       0.0   11458.5       0.0        0.0    1383.7       0.0      504.1       49.5     198.80
      0.78      0.00      8.28      0.00      0.000     0.045     0.000      0.000     179.40    4953.31
  0.003168      526.      770.      471.          2         0         0       0.00     140.25    5093.56

*SECNO 274.000

3470 ENCROACHMENT STATIONS=     4857.6    6479.8  TYPE=      1  TARGET=    -4857.600
   274.000     19.83    199.43      0.00       0.00    200.25      0.82       2.13       0.02     198.80
   11458.5       5.0   11453.5       0.0        7.0    1577.0       0.0      531.6       52.3     209.20
      0.81      0.71      7.26      0.00      0.045     0.045     0.000      0.000     179.60    4871.16
  0.002212      350.      810.      290.          2         0         0       0.00     169.18    5040.34

*SECNO 276.000

3470 ENCROACHMENT STATIONS=     4898.4    6276.6  TYPE=      1  TARGET=    -4898.400
   276.000     19.20    200.60      0.00       0.00    201.17      0.57       0.90       0.02     200.70
   11458.5       0.0   11458.5       0.0        0.0    1886.4       0.0      552.3       54.2     215.50
      0.83      0.00      6.07      0.00      0.000     0.045     0.000      0.000     181.40    4899.20
  0.001383      194.      520.      550.          2         0         0       0.00     162.92    5062.11
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 278.000

3265 DIVIDED FLOW

3470 ENCROACHMENT STATIONS= 4810.8 6930.1 TYPE= 1 TARGET= -4810.800

END CORPS OF ENGINEERS LEVEE

278.000	18.58	202.18	0.00	0.00	203.24	1.05	1.92	0.14	199.90
14400.0	547.2	13692.5	160.3	262.5	1623.5	205.5	612.7	64.1	201.20
0.88	2.08	8.43	0.78	0.045	0.035	0.045	0.000	183.60	4810.80
0.001396	639.	1400.	882.	2	0	0	0.00	676.15	5493.33

TN Sec 278 to 276 Left ***

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1461.6	2.02	2.18	1.09	1400.0	1337.9

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2941.47	2945.51	0.14	2941.47	2945.51	0.14	41	200.599	202.185	276.000	278.000

TN Sec 276 to 274 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	520.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2941.47	2945.51	0.14	41	199.431	200.599	274.000	276.000

TN Sec 274 to 272 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	810.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2941.47	2945.51	0.14	41	197.034	199.431	272.000	274.000

TN Sec 272 to 270 Left

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	770.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2941.47	2945.51	0.14	41	196.483	197.034	270.000	272.000

TW Sec 270 to 268 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	2941.47	2945.51	0.14	41	195.447	196.483	268.000	270.000

TN Sec 270 to 268 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
97.8	0.66	0.15	0.12	850.0	850.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
60.98	64.42	5.48	3002.45	3009.93	0.25	41	195.447	196.483	268.000	270.000

TW Sec 268 to 266 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3002.45	3009.93	0.25	41	195.363	195.447	266.000	268.000

TN Sec 268 to 266 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
67.7	0.75	0.26	0.21	330.0	330.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
47.57	50.93	6.83	3050.02	3060.86	0.35	41	195.363	195.447	266.000	268.000

TW Sec 266 to 264 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	3050.02	3060.86	0.35	41	195.098	195.363	264.000	266.000

TN Sec 266 to 264 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
72.6	0.68	0.26	0.23	315.0	315.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
46.65	49.41	5.76	3096.67	3110.28	0.44	41	195.098	195.363	264.000	266.000

TW Sec 264 to 262 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
256.88	259.80	1.13	3353.55	3370.08	0.49	41	194.772	195.098	262.000	264.000

TN Sec 264 to 262 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
28.2	0.71	0.27	0.24	120.0	120.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
19.31	20.17	4.36	3372.85	3390.25	0.51	41	194.772	195.098	262.000	264.000

TW Sec 262 to 260 Left (Portion Returns at Sec 244.)

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1559.44	1576.69	1.10	4932.30	4966.94	0.70	41	193.902	194.772	260.000	262.000

TN Sec 262 to 260 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
17.7	0.53	0.27	0.14	560.0	130.3

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
8.93	9.32	4.29	4941.22	4976.26	0.71	41	193.902	194.772	260.000	262.000

TW Sec 260 to 258 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
135.76	139.67	2.84	5076.98	5115.93	0.76	41	192.352	193.902	258.000	260.000

TN Sec 260 to 258 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
90.5	1.55	0.55	0.28	860.0	327.5

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
135.50	139.91	3.20	5212.49	5255.84	0.83	41	192.352	193.902	258.000	260.000

TW Sec 258 to 256 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	5212.49	5255.84	0.83	41	192.218	192.352	256.000	258.000

TN Sec 258 to 256 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
117.8	2.78	1.02	0.79	150.0	150.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
320.65	327.74	2.19	5533.14	5583.58	0.91	41	192.218	192.352	256.000	258.000

TW Sec 256 to 254 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
85.61	87.03	1.65	5618.74	5670.61	0.92	41	192.150	192.218	254.000	256.000

TN Sec 256 to 254 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
128.0	1.42	1.02	0.98	130.0	130.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
178.87	182.24	1.86	5797.62	5852.85	0.95	41	192.150	192.218	254.000	256.000

TW Sec 254 to 252 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
281.14	282.77	0.58	6078.76	6135.63	0.93	41	190.596	192.150	252.000	254.000

TN Sec 254 to 252 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
410.3	1.54	0.95	0.87	470.0	470.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
621.08	631.18	1.61	6699.84	6766.80	0.99	41	190.596	192.150	252.000	254.000

TW Sec 252 to 250 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	6699.84	6766.80	0.99	41	188.933	190.596	250.000	252.000

TN Sec 252 to 250 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
445.1	1.15	0.80	0.66	670.0	670.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
503.22	512.82	1.89	7203.06	7279.62	1.06	41	188.933	190.596	250.000	252.000

TW Sec 250 to 248 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7203.06	7279.62	1.06	41	188.483	188.933	248.000	250.000

TN Sec 250 to 248 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
86.2	0.69	0.53	0.31	280.0	280.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
56.35	59.52	5.48	7259.41	7339.14	1.09	41	188.483	188.933	248.000	250.000

TW Sec 248 to 246 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7259.41	7339.14	1.09	41	186.916	188.483	246.000	248.000

TN Sec 248 to 246 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
3.6	0.24	0.08	0.04	385.0	87.1

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.64	0.87	30.29	7260.05	7340.01	1.10	41	186.916	188.483	246.000	248.000

TW Sec 246 to 244 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7260.05	7340.01	1.10	41	186.694	186.916	244.000	246.000

TN Sec 246 to 244 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
80.3	1.01	0.59	0.30	400.0	270.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
81.21	81.28	0.09	7341.26	7421.29	1.08	41	186.694	186.916	244.000	246.000

TW Sec 244 to 242 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7341.26	7421.29	1.08	41	185.769	186.694	242.000	244.000

TN Sec 244 to 242 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
151.0	2.12	0.59	0.43	350.0	350.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
309.72	319.68	3.16	7650.98	7740.97	1.17	41	185.769	186.694	242.000	244.000

TN Sec 242 to 240 Right (LEVEE FAILS)

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
1.4	0.97	0.27	0.13	72.2	10.4

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1.36	1.36	0.08	7652.34	7742.33	1.17	41	185.899	185.769	240.000	242.000

TW Sec 228 to 226 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	185.469	185.809	226.000	228.000

TW Sec 228 to 226 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	185.469	185.809	226.000	228.000

TW Sec 226 to 224 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	182.507	185.469	224.000	226.000

TN Sec 226 to 224 Right

TOTAL AREA	AVG VELOCITY	MAX DEPTH	AVG DEPTH	TOF WIDTH	TOP WIDTH
0.0	0.00	0.00	0.00	1300.0	0.0

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	182.507	185.469	224.000	226.000

TW Sec 224 to 222 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	180.800	182.507	222.000	224.000

TW Sec 224 to 222 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	180.800	182.507	222.000	224.000

TW Sec 222 to 220 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	7652.34	7742.33	1.17	41	179.797	180.800	220.000	222.000

TW Sec 222 to 220 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.01	0.00	0.00	7652.35	7742.33	1.17	41	179.797	180.800	220.000	222.000

TW Sec 220 to 218 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.08	0.00	0.00	7652.43	7742.33	1.17	41	178.296	179.797	218.000	220.000

TW Sec 220 to 218 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
360.53	406.48	11.98	8012.96	8148.81	1.68	41	178.296	179.797	218.000	220.000

TW Sec 218 to 216 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
476.72	562.50	16.51	8489.68	8711.31	2.58	41	176.605	178.296	216.000	218.000

TW Sec 218 to 216 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
374.08	407.67	8.59	8863.75	9118.98	2.84	41	176.605	178.296	216.000	218.000

TW Sec 216 to 214 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
268.07	272.47	1.63	9131.82	9391.45	2.80	41	174.557	176.605	214.000	216.000

TW Sec 216 to 214 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
500.97	570.72	13.02	9632.79	9962.17	3.36	41	174.557	176.605	214.000	216.000

TW Sec 214 to 212 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	9632.79	9962.17	3.36	41	173.980	174.557	212.000	214.000

TW Sec 214 to 212 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
217.36	231.78	6.42	9850.15	10193.95	3.43	41	173.980	174.557	212.000	214.000

TW Sec 212 to 210 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	9850.15	10193.95	3.43	41	174.076	173.980	210.000	212.000

TW Sec 212 to 210 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.04	0.05	15.27	9850.19	10194.00	3.43	41	174.076	173.980	210.000	212.000

TW Sec 208 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	9850.19	10194.00	3.43	41	174.131	174.054	206.000	208.000

TW Sec 208 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
22.40	24.46	8.80	9872.59	10218.46	3.44	41	174.131	174.054	206.000	208.000

TW Sec 206 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.01	0.00	0.00	9872.59	10218.46	3.44	41	173.568	174.131	204.000	206.000

TW Sec 206 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.04	0.00	0.00	9872.63	10218.46	3.44	41	173.568	174.131	204.000	206.000

TW Sec 204 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
0.00	0.00	0.00	9872.63	10218.46	3.44	41	172.952	173.568	202.000	204.000

TW Sec 204 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1.43	0.00	0.00	9874.06	10218.46	3.43	41	172.952	173.568	202.000	204.000

TW Sec 202 to 200 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
893.89	1010.91	12.29	10767.95	11229.37	4.20	41	172.629	172.952	200.000	202.000

TW Sec 202 to 200 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
212.01	181.87	15.30	10979.96	11411.23	3.85	41	172.629	172.952	200.000	202.000

THIS RUN EXECUTED 30APR96 10:46:15

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS - CASE 5

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	200.000	0.00	0.00	0.00	150.20	4181.44	172.63	0.00	172.76	5.71	2.94	1524.60	1749.15
	202.000	521.90	0.00	0.00	150.50	5287.34	172.95	0.00	173.20	10.49	4.03	1324.71	1632.69
	204.000	516.30	0.00	0.00	152.50	5288.77	173.57	0.00	173.90	16.58	4.62	1143.74	1298.86
*	206.000	480.70	0.00	0.00	153.70	5288.81	174.13	0.00	174.23	3.31	2.50	2188.11	2905.12
*	208.000	50.00	0.00	0.00	158.30	5311.21	174.05	0.00	174.37	15.55	4.49	1183.17	1346.78
*	210.000	45.40	177.80	175.30	158.30	5311.21	174.08	0.00	174.39	0.94	4.48	1184.58	5480.60
*	212.000	65.30	0.00	0.00	156.40	5311.25	173.98	0.00	174.52	30.74	5.90	900.20	958.02
	214.000	191.80	0.00	0.00	157.60	5528.61	174.56	0.00	175.17	34.67	6.27	881.17	938.92
	216.000	647.60	0.00	0.00	157.70	6297.65	176.60	0.00	177.07	25.42	5.50	1145.32	1249.04
	218.000	703.90	0.00	0.00	158.20	7148.44	178.30	0.00	178.74	22.27	5.36	1334.59	1514.87
*	220.000	832.90	0.00	0.00	159.30	7509.04	179.80	0.00	180.05	11.59	4.07	1846.86	2205.55
	222.000	806.70	0.00	0.00	160.40	7509.05	180.80	0.00	181.17	15.71	4.88	1537.69	1894.74
	224.000	900.00	0.00	0.00	164.60	7509.06	182.51	0.00	183.04	27.14	5.88	1277.33	1441.41
	226.000	1290.00	0.00	0.00	165.70	7309.06	185.47	0.00	185.90	18.15	5.25	1393.02	1715.68
*	228.000	71.70	0.00	0.00	167.00	7309.06	185.81	0.00	186.04	8.43	3.86	1891.42	2518.04
*	230.000	58.00	191.50	188.50	167.60	7309.06	185.84	0.00	186.08	0.56	3.97	1842.27	9787.24
	232.000	77.00	0.00	0.00	168.40	7309.06	185.87	0.00	186.09	1.11	3.81	1920.68	6952.65

Run Date: 30APR96 Run Time: 10:45:44 HMVersion: 6.52 Data File: case5a.HC2 Page 38

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	240.000	47.70	190.50	188.50	168.50	7309.06	185.90	0.00	186.24	0.88	4.67	1563.65	7802.51
*	242.000	72.20	0.00	0.00	168.90	7310.42	185.77	0.00	186.40	33.02	6.44	1198.94	1272.12
*	244.000	258.20	0.00	0.00	168.90	7620.14	186.69	0.00	186.84	8.70	3.07	2483.49	2583.27
*	246.000	389.50	0.00	0.00	169.30	7139.94	186.92	0.00	187.60	36.53	6.64	1075.34	1181.25
*	248.000	523.10	0.00	0.00	169.70	7140.59	188.48	0.00	188.78	14.57	4.44	1767.73	1870.50
	250.000	310.20	0.00	0.00	169.70	7196.94	188.93	0.00	189.37	22.07	5.31	1370.58	1532.08
	252.000	670.00	0.00	0.00	171.90	7700.16	190.60	0.00	191.43	38.72	7.31	1052.77	1237.43
*	254.000	488.20	0.00	0.00	172.00	8602.38	192.15	0.00	192.55	14.97	5.18	1835.63	2223.63
	256.000	130.40	0.00	0.00	171.20	8866.86	192.22	0.00	192.79	14.29	6.13	1581.96	2345.97
	258.000	147.30	0.00	0.00	174.00	9187.51	192.35	0.00	193.10	20.87	6.93	1325.53	2011.18
	260.000	771.20	0.00	0.00	174.50	9458.78	193.90	0.00	194.49	15.48	6.15	1537.38	2403.80
	262.000	595.20	0.00	0.00	174.60	11027.15	194.77	0.00	195.27	11.19	5.66	1979.54	3296.96
	264.000	187.80	0.00	0.00	173.60	11303.33	195.10	0.00	195.45	7.43	4.77	2370.68	4147.76
	266.000	305.60	0.00	0.00	175.20	11349.98	195.36	0.00	195.67	6.74	4.47	2636.24	4371.03
	268.000	314.20	0.00	0.00	175.70	11397.55	195.45	0.00	196.03	11.87	6.12	1861.26	3308.27
	270.000	850.00	0.00	0.00	177.70	11458.53	196.48	0.00	196.84	7.52	4.83	2510.29	4178.97
*	272.000	770.00	0.00	0.00	179.40	11458.53	197.03	0.00	198.10	31.68	8.28	1383.70	2035.65
	274.000	810.00	0.00	0.00	179.60	11458.53	199.43	0.00	200.25	22.12	7.26	1584.01	2436.58
	276.000	520.00	0.00	0.00	181.40	11458.53	200.60	0.00	201.17	13.83	6.07	1886.39	3081.09
	278.000	1400.00	0.00	0.00	183.60	14400.00	202.18	0.00	203.24	13.96	8.43	2091.51	3853.61

LOWER UVAS - CASE 5

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	200.000	4181.44	172.63	0.00	0.00	2.63	184.80	0.00
	202.000	5287.34	172.95	0.00	0.32	0.00	119.26	521.90
	204.000	5288.77	173.57	0.00	0.62	0.00	89.34	516.30
*	206.000	5288.81	174.13	0.00	0.56	0.00	166.20	480.70
*	208.000	5311.21	174.05	0.00	-0.08	0.00	75.19	50.00
*	210.000	5311.21	174.08	0.00	0.02	0.00	75.17	45.40
*	212.000	5311.25	173.98	0.00	-0.10	0.00	76.04	65.30
	214.000	5528.61	174.56	0.00	0.58	0.00	72.06	191.80
	216.000	6297.65	176.60	0.00	2.05	0.00	97.68	647.60
	218.000	7148.44	178.30	0.00	1.69	0.00	124.63	703.90
*	220.000	7509.04	179.80	0.00	1.50	0.00	147.41	832.90
	222.000	7509.05	180.80	0.00	1.00	0.00	111.95	806.70
	224.000	7509.06	182.51	0.00	1.71	0.00	107.94	900.00
	226.000	7309.06	185.47	0.00	2.96	0.00	101.56	1290.00
*	228.000	7309.06	185.81	0.00	0.34	0.00	107.05	71.70
*	230.000	7309.06	185.84	0.00	0.03	0.00	106.05	58.00
	232.000	7309.06	185.87	0.00	0.03	0.00	110.01	77.00
	240.000	7309.06	185.90	0.00	0.03	0.00	110.00	47.70
*	242.000	7310.42	185.77	0.00	-0.13	0.00	254.00	72.20
*	244.000	7620.14	186.69	0.00	0.92	0.00	249.30	258.20
*	246.000	7139.94	186.92	0.00	0.22	0.00	91.49	389.50
*	248.000	7140.59	188.48	0.00	1.57	0.00	468.81	523.10
	250.000	7196.94	188.93	0.00	0.45	0.00	166.28	310.20
	252.000	7700.16	190.60	0.00	1.66	0.00	91.99	670.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	254.000	8602.38	192.15	0.00	1.55	0.00	326.93	488.20
	256.000	8866.86	192.22	0.00	0.07	0.00	446.10	130.40
	258.000	9187.51	192.35	0.00	0.13	0.00	105.02	147.30
	260.000	9458.78	193.90	0.00	1.55	0.00	118.01	771.20
	262.000	11027.15	194.77	0.00	0.87	0.00	167.00	595.20
	264.000	11303.33	195.10	0.00	0.33	0.00	156.44	187.80
	266.000	11349.98	195.36	0.00	0.27	0.00	319.30	305.60
	268.000	11397.55	195.45	0.00	0.08	0.00	140.21	314.20
	270.000	11458.53	196.48	0.00	1.04	0.00	407.15	850.00
*	272.000	11458.53	197.03	0.00	0.55	0.00	140.25	770.00
	274.000	11458.53	199.43	0.00	2.40	0.00	169.18	810.00
	276.000	11458.53	200.60	0.00	1.17	0.00	162.92	520.00
	278.000	14400.00	202.18	0.00	1.59	0.00	676.15	1400.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    206.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    212.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    220.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    228.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    230.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    242.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    244.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    246.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    248.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    254.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    272.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: RB101_4A.HC2

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*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    16APR96    TIME   15:28:35 *
*******************************************
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***************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
***************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX            XXXXXXX
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::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
:::                                      :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION  :::
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============================
H A E S T A  D  M E T H O D S
============================
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37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

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                                                                                THIS RUN EXECUTED  16APR96    15:28:35
*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************


T1LOWER UVAS CREEK,  ROB AT 101
T2WEIR/CULVERT BALANCE
T3      LOWER UVAS ROB@101 CASE4

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              2.                          -1.                                     170.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.                 -1.                                                                    15.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   150.

NC    0.045     0.045     0.035       0.3       0.5
QT       1.     1135.
ET               9.1                                                                          4750.       5300.
X1       2.        6.     4996.     5004.
X3     10.0
GR   173.1     4100.    169.81     4996.    160.58    4996.1    160.58    5003.9    169.79      5004.
GR   169.3     5300.

SB      0.9       2.2       2.6                 8.                 46.4        0.      161.5     160.58
X1       3.        0.        0.        0.     185.      185.     185.                 .93
X2                          1.     167.3     169.3
X3     10.0
BT       5.     4100.     171.3     171.3     4700.     170.3     170.3     4996.    169.81      167.3
BT    5004.    169.79    169.81     5300.     169.3     169.3

ET               9.1                                                                          4750.       5300.
X1       4.        6.     4996.     5004.      10.       10.       10.
GR   173.1     4100.     161.5     4101.    161.5     4996.     161.5     5004.     161.5      5299.
GR   169.3     5300;
```

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1


CCHV=    0.300 CEHV=    0.500
*SECNO 2.000
3280 CROSS SECTION      2.00 EXTENDED      1.15 FEET

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS =     4750.0    5300.0  TYPE=      1  TARGET=      550.000
     2.000      9.87    170.45    170.45      0.00    170.75      0.30      0.00      0.00    169.81
    1135.0      61.4     486.7     587.0      55.9      78.0     268.1       0.0       0.0    169.79
      0.00      1.10      6.24      2.19     0.045     0.035     0.045     0.000    160.58   4821.53
  0.005044        0.        0.        0.         0         9         0      0.00    478.47   5300.00


FLOW DISTRIBUTION FOR SECNO =      2.00          CWSEL=    170.45

STA=    4822.    4996.    5004.    5300.
  PER Q=      5.4     42.9     51.7
   AREA=     55.9     78.0    268.1
    VEL=      1.1      6.2      2.2
  DEPTH=      0.3      9.8      0.9


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      2.20      2.60      0.00      8.00      0.00     46.40      0.00    161.50    160.58

*SECNO 3.000
1860 XLCEL OF     169.81 EXCEEDS RDEL OF     169.79
6870 D.S. ENERGY OF   170.75 IS HIGHER THAN COMPUTED ENERGY OF   170.56
3280 CROSS SECTION      3.00 EXTENDED      1.12 FEET

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape


 EGPRS      EGLWC      H3        QWEIR     QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                              AREA
    190.89    171.67      0.00     1053.       84.       46.       46.      167.30    169.30       757.


3685 20 TRIALS ATTEMPTED WSEL ,CWSEL
```

```
   Run Date:  16APR96    Run Time: 15:28:35    HMVersion: 6.52    Data File:   RB101_4A.HC2                    Page    3

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3710 WSEL ASSUMED BASED ON MIN DIFF
     3.000      9.84     171.35       0.00       0.00     171.68       0.33       0.00       0.00     170.74
    1135.0      56.0      502.8      576.1       50.7       77.8      259.1        1.7        2.0     170.72
      0.01      1.10       6.46       2.22      0.045      0.035      0.045      0.000     161.51    4829.75
  0.005440      185.       185.       185.         20          0          8       0.00     470.25    5300.00

FLOW DISTRIBUTION FOR SECNO =      3.00          CWSEL=    171.35

STA=    4830.    4996.    5004.    5300.
  PER Q=      4.9     44.3     50.8
   AREA=     50.7     77.8    259.1
    VEL=      1.1      6.5      2.2
  DEPTH=      0.3      9.7      0.9

*SECNO 4.000
3280 CROSS SECTION      4.00 EXTENDED      2.48 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 56.78

3470 ENCROACHMENT STATIONS =     4750.0    5300.0  TYPE=      1  TARGET=      550.000
     4.000     10.28    171.78       0.00       0.00    171.78       0.00       0.00       0.10     161.50
    1135.0     498.7      21.4      614.8     2527.7      82.2     3037.5        2.4        2.1     161.50
      0.03      0.20      0.26       0.20      0.045      0.035      0.045      0.000     161.50    4750.00
  0.000002       10.       10.        10.          2          0          0       0.00     550.00    5300.00

FLOW DISTRIBUTION FOR SECNO =      4.00          CWSEL=    171.78

STA=    4750.    4996.    5004.    5299.    5300.
  PER Q=     43.9      1.9     54.2      0.0
   AREA=   2527.7     82.2   3031.2      6.4
    VEL=      0.2      0.3      0.2      0.0
  DEPTH=     10.3     10.3     10.3      6.4
```

THIS RUN EXECUTED 16APR96 15:28:35

```
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS ROB@101 CASE4

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2.000	0.00	0.00	0.00	160.58	1135.00	170.45	170.45	170.75	50.44	6.24	401.99	159.81
*	3.000	185.00	169.30	167.30	161.51	1135.00	171.35	0.00	171.68	54.40	6.46	387.68	153.88
*	4.000	10.00	0.00	0.00	161.50	1135.00	171.78	0.00	171.78	0.02	0.26	5647.41	8736.88

LOWER UVAS ROB@101 CASE4

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.000	1135.00	170.45	0.00	0.00	0.00	478.47	0.00
*	3.000	1135.00	171.35	0.00	0.90	0.00	470.25	185.00
*	4.000	1135.00	171.78	0.00	0.42	0.00	550.00	10.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      2.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=      3.000  PROFILE=  1  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=      3.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      4.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

HEC2 S/N: 1366000127 HMVersion: 6.52 Data File: RB101_5A.HC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    16APR96    TIME   15:29:11 *
*******************************************
```

```
****************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D          *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104              *
****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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:::::::::::::::::::::::::::::::::::::::::::::
:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                       :::
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```

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============================
H A E S T A  D   M E T H O D S
============================
```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

```
   Run Date:  16APR96    Run Time: 15:29:11    HMVersion: 6.52    Data File:   RB101_5A.HC2                    Page    1


                                                                                THIS RUN EXECUTED  16APR96    15:29:11
************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************


T1LOWER UVAS CREEK,  ROB AT 101
T2WEIR/CULVERT BALANCE
T3      LOWER UVAS ROB@101 CASE5

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              2.                        -1.                                     170.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    -1.                 -1.                                                                   15.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

   150.

NC    0.045     0.045     0.035       0.3       0.5
QT      1.      2355.
ET              9.1                                                                       4750.       5300.
X1      2.        6.      4996.     5004.
X3    10.0
GR   173.1     4100.     169.81     4996.    160.58    4996.1    160.58    5003.9     169.79       5004.
GR   169.3     5300.

SB      0.9       2.2       2.6                 8.                 46.4        0.       161.5      160.58
X1      3.        0.        0.        0.      185.       185.      185.                 .93
X2                  .        1.     167.3     169.3
X3    10.0
BT      5.     4100.     171.3     171.3     4700.     170.3     170.3     4996.     169.81       167.3
BT   5004.    169.79    169.81     5300.     169.3     169.3

ET              9.1                                                                       4750.       5300.
X1      4.        6.      4996.     5004.       10.       10.       10.
GR   173.1     4100.     161.5     4101.     161.5     4996.     161.5     5004.      161.5       5299.
GR   169.3     5300.
```

```
   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1


CCHV=    0.300 CEHV=    0.500
*SECNO 2.000
3280 CROSS SECTION      2.00 EXTENDED      1.45 FEET

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     4750.0    5300.0  TYPE=      1  TARGET=      550.000
     2.000     10.17    170.75    170.75      0.00    171.30      0.54      0.00      0.00    169.81
    2355.0     254.5     736.1    1364.4     121.1      80.5     357.9       0.0       0.0    169.79
      0.00      2.10      9.15      3.81     0.045     0.035     0.045     0.000    160.58   4750.00
  0.010418        0.        0.        0.         0         8         0      0.00    550.00   5300.00


FLOW DISTRIBUTION FOR SECNO=      2.00          CWSEL=    170.75

STA=    4750.    4996.    5004.    5300.
  PER Q=     10.8     31.3     57.9
   AREA=    121.1     80.5    357.9
    VEL=      2.1      9.1      3.8
  DEPTH=      0.5     10.1      1.2


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     0.90      2.20      2.60      0.00      8.00      0.00     46.40      0.00    161.50    160.58

*SECNO 3.000
1860 XLCEL OF     169.81 EXCEEDS RDEL OF     169.79
6870 D.S. ENERGY OF   171.30 IS HIGHER THAN COMPUTED ENERGY OF   170.98
3280 CROSS SECTION      3.00 EXTENDED      1.61 FEET

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape


 EGPRS      EGLWC      H3        QWEIR     QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                                AREA
    258.75    172.22      0.00     2236.      120.       46.       46.      167.30    169.30     1010.


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
```

```
Run Date:  16APR96    Run Time: 15:29:11    HMVersion: 6.52    Data File:   RB101_5A.HC2                    Page    3

   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3710 WSEL ASSUMED BASED ON MIN DIFF
     3.000      10.33     171.84       0.00       0.00     172.21       0.37       0.00       0.00     170.74
    2355.0      315.0      634.1     1406.0      165.6       81.7      404.9        2.6        2.5     170.72
      0.01       1.90       7.76       3.47      0.045      0.035      0.045      0.000     161.51    4695.67
  0.007337       185.       185.       185.         20          0          9       0.00     604.33    5300.00

FLOW DISTRIBUTION FOR SECNO=      3.00          CWSEL=    171.84

STA=    4696.    4996.    5004.    5300.
  PER Q=     13.4     26.9     59.7
   AREA=    165.6     81.7    404.9
    VEL=      1.9      7.8      3.5
  DEPTH=      0.6     10.2      1.4

*SECNO 4.000
3280 CROSS SECTION      4.00 EXTENDED      3.02 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 34.63

3470 ENCROACHMENT STATIONS=     4750.0    5300.0  TYPE=      1  TARGET=      550.000
     4.000      10.82     172.32       0.00       0.00     172.32       0.00       0.00       0.11     161.50
    2355.0     1034.0      44.5     1276.5     2662.2       86.6     3199.4        3.3        2.6     161.50
      0.02       0.39       0.51       0.40      0.045      0.035      0.045      0.000     161.50    4750.00
  0.000006        10.        10.        10.          2          0          0       0.00     550.00    5300.00

FLOW DISTRIBUTION FOR SECNO=      4.00          CWSEL=    172.32

STA=    4750.    4996.    5004.    5299.    5300.
  PER Q=     43.9      1.9     54.2      0.0
   AREA=   2662.2     86.6   3192.5      6.9
    VEL=      0.4      0.5      0.4      0.1
  DEPTH=     10.8     10.8     10.8      6.9
```

THIS RUN EXECUTED 16APR96 15:29:12

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS ROB@101 CASE5

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2.000	0.00	0.00	0.00	160.58	2355.00	170.75	170.75	171.30	104.18	9.15	559.45	230.73
*	3.000	185.00	169.30	167.30	161.51	2355.00	171.84	0.00	172.21	73.37	7.76	652.19	274.93
*	4.000	10.00	0.00	0.00	161.50	2355.00	172.32	0.00	172.32	0.06	0.51	5948.18	9519.64

LOWER UVAS ROB@101 CASE5

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.000	2355.00	170.75	0.00	0.00	0.00	550.00	0.00
*	3.000	2355.00	171.84	0.00	1.09	0.00	604.33	185.00
*	4.000	2355.00	172.32	0.00	0.48	0.00	550.00	10.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      2.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=      3.000  PROFILE=  1  WSEL ASSUMED BASED ON MIN DIFF
CAUTION SECNO=      3.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      4.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

HEC2 S/N: ********* HMVersion: 6.40 Data File: RRBRIDGE.HC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
  RUN DATE    10JAN94    TIME   10:43:59  *
*******************************************
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****************************************
 *  U.S. ARMY CORPS OF ENGINEERS       *
 *  HYDROLOGIC ENGINEERING CENTER      *
*  609 SECOND STREET, SUITE D         *
 *  DAVIS, CALIFORNIA 95616-4687       *
*          (916) 756-1104             *
****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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:::                                       :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
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:::::::::::::::::::::::::::::::::::::::::::::
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============================
H A E S T A D   M E T H O D S
============================
```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

THIS RUN EXECUTED 10JAN94 10:43:59

```
************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
************************************



SPLIT FLOW BEING PERFORMED


SF      MODEL SPILL FROM PERCHED CHANNEL FAILING LOWER LEFT LEVEE


JC      LOWER UVAS CREEK - SPRR TO THOMAS ROAD
JP0.            40.     -1.

TW  Sec 200 to 202 Left
WS2.    200.    202.    -1.     2.6
WC0.    171.0   510.2   173.1

TW  Sec 200 to 202 Right
WS2.    200.    202.    -1.     2.6
WC0.    172.0   545.2   173.3

TW  Sec 202 to 204 Left
WS2.    202.    204.    -1.     2.6
WC0.    173.1   469.5   174.6

TW  Sec 202 to 204 Right
WS2.    202.    204.    -1.     2.6
WC0.    173.3   540.8   174.1

TW  Sec 204 to 206 Left
WS2.    204.    206.    -1.     2.6
WC0.    174.6   460.    177.5

TW  Sec 204 to 206 Right
WS2.    204.    206.    -1.     2.6
WC0.    174.1   480.    175.5

TW  Sec 206 to 208 Left
WS2.    206.    208.    -1.     2.6
WC0.    177.5   50.     178.1

TW  Sec 206 to 208 Right
WS2.    206.    208.    -1.     2.6
WC0.    175.5   50.     173.0
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 1.                -1.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

  Start at Normal Depth 1500 Feet D/S of Study Limit (SPRR)

NC   .05       .07       .035      .1        .3
QT   14.       1000.     2000.     3000.     4000.     5000.     6000.     7000.     8000.     9000.
QT   10000.    11000.    12000.    13000.    14000.
X1   200.0     23.0      4948.8    5045.8
X3                                4861.0              5045.8
GR   158.0     3750.0    159.2     3898.9    165.7     3917.1    165.7     3929.1    160.1     3949.3
GR   168.7     4850.4    171.0     4861.0    170.6     4948.8    161.0     4972.3    150.2     4990.5
GR   150.2     4990.5    150.2     5000.0    150.2     5014.0    172.0     5045.8    171.0     5088.4
GR   169.4     5094.4    168.3     5315.9    167.6     5541.2    166.0     5548.1    164.9     6037.9
GR   159.0     6978.6    159.9     6990.7    159.4     7051.0

X1   202.0     19.0      4958.4    5048.5    510.2     545.2     521.9
X3                                4924.1              5048.5
GR   157.3     3450.2    158.8     3703.8    165.7     3722.0    165.6     3734.5    160.3     3755.0
GR   170.4     4845.9    171.2     4918.2    173.1     4924.1    172.0     4958.4    150.5     4988.3
GR   150.5     5000.0    150.5     5014.2    173.3     5048.5    171.7     5146.8    168.6     5687.6
GR   166.4     6120.4    159.9     7113.1    161.7     7140.5    161.8     7197.2

NC   .045
X1   204.0     17.0      4937.6    5030.1    469.5     540.8     516.3
X3                                4937.6              5030.1
GR   158.4     3257.4    159.6     3438.6    165.4     3453.2    165.4     3471.1    161.2     3490.2
GR   171.3     4884.9    174.4     4905.8    174.6     4937.6    163.2     4967.4    152.5     4988.1
GR   152.5     5000.0    152.5     5010.9    174.1     5030.1    173.9     5065.6    171.7     5077.5
GR   170.4     5511.5    164.9     6535.9

  Expanded Flow D/S of SPRR Bridge
```

```
X1   206.0    18.0       4927.5     5064.5     679.7      320.       480.7
X3                                  4901.1                5126.4
 R   160.7    3087.4     161.1      3116.1     166.2      3133.2     166.0      3149.4     162.5      3164.4
 R   171.8    4885.4     177.5      4901.1     175.9      4927.5     161.8      4953.3     153.7      4983.2
GR   153.7    5000.0     153.7      5031.8     167.0      5064.5     175.2      5101.8     175.5      5126.4
GR   172.8    5180.2     168.9      6080.1     162.6      7151.8

  D/S SPRR Bridge

NC                                  .3         .5
X1   208.0    13.0       4962.9     5038.1     50.        50.        50.
X3   10.                            4962.9                5038.1
GR   165.7    4068.7     172.2      4879.7     178.1      4911.4     175.7      4962.9     158.3      4963.0
GR   158.3    5000.0     158.3      5038.0     171.0      5038.1     173.0      5151.9     170.2      5667.3
GR   168.9    6072.1     169.1      6444.9     163.6      7128.3

NC   .02      .02        .016

  SPRR Bridge

SB   0.9      1.56       2.6                   75.        6.         1173.      0.

        SPRR

X1   210.0    14.0       4962.9     5038.1     45.4       45.4       45.4
X2                       1.         175.3      177.8                           1.33
X3   10.                            4961.5                5038.1
BT   -14.0    4142.1     175.5      165.0      4856.7     178.4      172.4      4914.7     178.4      178.2
BT            4961.5     178.4      178.0      4962.9     178.4      177.9      4963.0     180.3      175.3
BT            5000.0     180.3      175.3      5038.0     180.3      175.3      5038.1     178.3      176.5
BT            5055.1     178.2      157.8      5055.2     178.2      176.6      5376.9     177.1      173.3
BT            5923.4     174.8      170.6      6100.7     173.9      170.3
GR   165.0    4142.1     172.4      4856.7     178.2      4914.7     178.0      4961.5     177.9      4962.9
GR   158.3    4963.      158.3      5000.0     158.3      5038.0     175.3      5038.1     176.5      5055.1
GR   176.6    5055.2     173.3      5376.9     170.6      5923.4     170.3      6100.7
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 200.000

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000      8.46    158.66       .00    170.00    158.82       .16       .00       .00    170.60
    1000.0        .0    1000.0        .0        .0     311.5        .0        .0        .0 100000.00
       .00       .00      3.21       .00      .000      .035      .000      .000    150.20   4976.24
   .000567        0.        0.        0.         0         0         6       .00     50.11   5026.35


*SECNO 202.000

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000      8.46    158.96       .00       .00    159.11       .15       .28       .00    172.00
    1000.0        .0    1000.0        .0        .0     322.9        .0       3.8        .6 100000.00
       .05       .00      3.10       .00      .000      .035      .000      .000    150.50   4976.53
   .000511      510.      522.      545.         0         0         0       .00     50.40   5026.93


*SECNO 204.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .59


3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000      6.75    159.25       .00       .00    159.58       .32       .42       .05    174.60
    1000.0        .0    1000.0        .0        .0     218.7        .0       7.0       1.1 100000.00
       .08       .00      4.57       .00      .000      .035      .000      .000    152.50   4975.02
   .001475      470.      516.      541.         2         0         0       .00     41.89   5016.91


*SECNO 206.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.90


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000      6.15    159.85       .00       .00    159.94       .09       .34       .02    175.90
    1000.0        .0    1000.0        .0        .0     414.8        .0      10.5       1.9    167.00
       .13       .00      2.41       .00      .000      .035      .000      .000    153.70   4960.52
   .000411      680.      481.      320.         2         0         0       .00     86.39   5046.91
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

CCHV=     .300 CEHV=     .500
*SECNO 208.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

  208.000      1.77    160.07    160.07       .00    160.95       .89       .06       .40    175.70
   1000.0        .0    1000.0        .0        .0     132.4        .0      10.8       1.9 100000.00
      .14       .00      7.55       .00      .000      .035      .000      .000    158.30   4962.99
  .015754       50.       50.       50.        20        14         0       .00     75.02   5038.01


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
5227 DOWNSTREAM ELEV IS     159.72 , NOT     160.07 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.70

CLASS B LOW FLOW

3420 BRIDGE W.S.=     160.17 BRIDGE VELOCITY=       7.75     CALCULATED CHANNEL AREA=       129.

 EGPRS      EGLWC      H3        QWEIR     QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                              AREA
      .00    161.20       .00        0.     1000.     1173.     1173.      175.30    177.80        0.


3470 ENCROACHMENT STATIONS=     4961.5    5038.1  TYPE=      1  TARGET=       76.600
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	2.44	160.74	.00	.00	161.20	.46	.25	.00	177.90
1000.0	.0	1000.0	.0	.0	182.8	.0	11.0	2.0	100000.00
.14	.00	5.47	.00	.000	.016	.000	.000	158.30	4962.99
.001151	45.	45.	45.	0	0	0	.00	75.03	5038.01

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	158.664	158.957	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	158.664	158.957	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	158.957	159.252	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	158.957	159.252	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	159.252	159.848	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	159.252	159.848	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	159.848	160.066	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	159.848	160.066	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         3.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 2.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED      2.97 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     12.17    162.37       .00    170.00    162.60       .23       .00       .00    170.60
    2000.0        .0    2000.0        .0        .0     519.5        .0        .0        .0 100000.00
       .00       .00      3.85       .00      .000      .035      .000      .000    150.20   4968.95
   .000566        0.        0.        0.         0         0         5       .00     62.80   5031.75

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED      .87 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     12.16    162.66       .00       .00    162.88       .22       .28       .00    172.00
    2000.0        .0    2000.0        .0        .0     529.6        .0       6.3        .7 100000.00
       .04       .00      3.78       .00      .000      .035      .000      .000    150.50   4971.38
   .000520      510.      522.      545.         0         0         0       .00     61.13   5032.51

*SECNO 204.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .67

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     10.42    162.92       .00       .00    163.33       .41       .39       .06    174.60
    2000.0        .0    2000.0        .0        .0     391.3        .0      11.7       1.4 100000.00
       .07       .00      5.11       .00      .000      .035      .000      .000    152.50   4967.92
   .001175      470.      516.      541.         2         0         0       .00     52.25   5020.17

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED      .89 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.05
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 SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
 Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
 TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
 SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000      9.79    163.49       .00       .00    163.60       .11       .24       .03    175.90
    2000.0        .0    2000.0        .0        .0     768.1        .0      18.1       2.3    167.00
       .12       .00      2.60       .00      .000      .035      .000      .000    153.70   4950.20
   .000279      680.      481.      320.         2         0         0       .00    105.67   5055.88


CCHV=     .300 CEHV=     .500
*SECNO 208.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000      5.06    163.36       .00       .00    163.79       .43       .03       .16    175.70
    2000.0        .0    2000.0        .0        .0     379.9        .0      18.8       2.4 100000.00
       .12       .00      5.26       .00      .000      .035      .000      .000    158.30   4962.97
   .002092       50.       50.       50.         3         0         0       .00     75.07   5038.04


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
      .90       1.56       2.60        .00      75.00       6.00    1173.00       .00     158.30     158.30

*SECNO 210.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23

CLASS A LOW FLOW

3420 BRIDGE W.S.=     163.26 BRIDGE VELOCITY=       5.85     CALCULATED CHANNEL AREA=       342.

 EGPRS      EGLWC      H3         QWEIR      QLOW       BAREA    TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                    AREA
       .00    163.85       .07        0.      2000.      1173.     1173.      175.30     177.80        0.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	5.13	163.43	.00	.00	163.85	.42	.06	.00	177.90
2000.0	.0	2000.0	.0	.0	385.1	.0	19.2	2.5	100000.00
.12	.00	5.19	.00	.000	.016	.000	.000	158.30	4962.97
.000419	45.	45.	45.	0	0	0	.00	75.06	5038.03

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.370	162.662	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.370	162.662	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.662	162.921	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.662	162.921	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.921	163.493	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	162.921	163.493	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	163.493	163.361	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	163.493	163.361	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

          4.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 3.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED      5.74 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     14.94    165.14       .00    170.00    165.42       .28       .00       .00    170.60
    3000.0        .0    3000.0        .0        .0     708.6        .0        .0        .0 100000.00
       .00       .00      4.23       .00      .000      .035      .000      .000    150.20   4962.16
   .000561        0.        0.        0.         0         0         4       .00     73.63   5035.79

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED      3.63 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     14.93    165.43       .00       .00    165.70       .28       .28       .00    172.00
    3000.0        .0    3000.0        .0        .0     709.6        .0       8.5        .9 100000.00
       .03       .00      4.23       .00      .000      .035      .000      .000    150.50   4967.53
   .000526      510.      522.      545.         1         0         0       .00     69.13   5036.67

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED       .78 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .70

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     13.17    165.67       .00       .00    166.14       .47       .38       .06    174.60
    3000.0        .0    3000.0        .0        .0     547.8        .0      15.9       1.6 100000.00
       .06       .00      5.48       .00      .000      .035      .000      .000    152.50   4960.92
   .001084      470.      516.      541.         2         0         0       .00     61.70   5022.62

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED      3.66 FEET
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.14


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     12.56    166.26       .00       .00    166.38       .12       .21       .03    175.90
    3000.0        .0    3000.0        .0        .0    1077.2        .0      24.9       2.6    167.00
       .11       .00      2.78       .00      .000      .035      .000      .000    153.70   4945.14
   .000236      680.      481.      320.         2         0         0       .00    117.55   5062.69


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      2.54 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000      7.84    166.14       .00       .00    166.55       .40       .02       .14    175.70
    3000.0        .0    3000.0        .0        .0     588.7        .0      25.9       2.7 100000.00
       .11       .00      5.10       .00      .000      .035      .000      .000    158.30   4962.96
   .001189       50.       50.       50.         3         0         0       .00     75.11   5038.06


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

CLASS A LOW FLOW

3420 BRIDGE W.S.=     166.06 BRIDGE VELOCITY=       5.60     CALCULATED CHANNEL AREA=       535.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	166.59	.05	0.	3000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	7.89	166.19	.00	.00	166.59	.40	.04	.00	177.90
3000.0	.0	3000.0	.0	.0	592.2	.0	26.5	2.8	100000.00
.11	.00	5.07	.00	.000	.016	.000	.000	158.30	4962.96
.000244	45.	45.	45.	0	0	0	.00	75.09	5038.05

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.141	165.426	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.141	165.426	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.426	165.671	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.426	165.671	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.671	166.262	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	165.671	166.262	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	166.262	166.144	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	166.262	166.144	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (lb)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         5.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 4.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED      7.96 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     17.16    167.36       .00    170.00    167.68       .32       .00       .00    170.60
    4000.0        .0    4000.0        .0        .0     881.2        .0        .0        .0 100000.00
       .00       .00      4.54       .00      .000      .035      .000      .000    150.20   4956.74
   .000560        0.        0.        0.         0         0         3       .00     82.28   5039.02

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED      5.85 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     17.14    167.64       .00       .00    167.96       .33       .29       .00    172.00
    4000.0        .0    4000.0        .0        .0     869.6        .0      10.5        .9 100000.00
       .03       .00      4.60       .00      .000      .035      .000      .000    150.50   4964.46
   .000539      510.      522.      545.         1         0         0       .00     75.54   5039.99

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      2.99 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     15.38    167.88       .00       .00    168.40       .52       .38       .06    174.60
    4000.0        .0    4000.0        .0        .0     692.6        .0      19.7       1.8 100000.00
       .06       .00      5.78       .00      .000      .035      .000      .000    152.50   4955.15
   .001038      470.      516.      541.         2         0         0       .00     69.43   5024.58

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED      5.89 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.20
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
  206.000     14.79    168.49       .00       .00    168.63       .14       .19       .04    175.90
   4000.0        .0    3998.7       1.3        .0    1347.4       5.1      31.0       2.9    167.00
      .10       .00      2.97       .25      .000      .035      .070      .000    153.70   4941.05
 .000214      680.      481.      320.         2         0         0       .00    130.24   5071.29


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      4.76 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .47


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

  208.000     10.06    168.36       .00       .00    168.80       .44       .02       .15    175.70
   4000.0        .0    4000.0        .0        .0     755.5        .0      32.2       3.0 100000.00
      .10       .00      5.29       .00      .000      .035      .000      .000    158.30   4962.94
 .000981       50.       50.       50.         3         0         0       .00     75.14   5038.08


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.20

CLASS A LOW FLOW

3420 BRIDGE W.S.=     168.28 BRIDGE VELOCITY=       5.81     CALCULATED CHANNEL AREA=       688.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	168.84	.05	0.	4000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	10.11	168.41	.00	.00	168.84	.43	.04	.00	177.90
4000.0	.0	4000.0	.0	.0	758.8	.0	33.0	3.1	100000.00
.11	.00	5.27	.00	.000	.016	.000	.000	158.30	4962.95
.000202	45.	45.	45.	0	0	0	.00	75.11	5038.06

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.355	167.636	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.355	167.636	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.636	167.879	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.636	167.879	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.879	168.493	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	167.879	168.493	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	168.493	168.364	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	168.493	168.364	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         6.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 5.                -1.
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Run Date:  10JAN94    Run Time: 10:43:59    HMVersion: 6.40    Data File:   RRBRIDGE.HC2                    Page   24

   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 5

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED      9.73 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     18.93    169.13       .00    170.00    169.49       .36       .00       .00    170.60
    5000.0        .0    5000.0        .0        .0    1033.0        .0        .0        .0 100000.00
       .00       .00      4.84       .00      .000      .035      .000      .000    150.20   4952.41
   .000575        0.        0.        0.         0         0         3       .00     89.20   5041.61

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED      7.62 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     18.91    169.41       .00       .00    169.79       .38       .30       .01    172.00
    5000.0        .0    5000.0        .0        .0    1008.1        .0      12.2       1.0 100000.00
       .03       .00      4.96       .00      .000      .035      .000      .000    150.50   4961.99
   .000565      510.      522.      545.         1         0         0       .00     80.67   5042.66

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      4.77 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     17.16    169.66       .00       .00    170.24       .57       .39       .06    174.60
    5000.0        .0    5000.0        .0        .0     821.8        .0      23.1       1.9 100000.00
       .05       .00      6.08       .00      .000      .035      .000      .000    152.50   4950.49
   .001031      470.      516.      541.         2         0         0       .00     75.67   5026.16

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED      7.71 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.24
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
  206.000     16.61    170.31       .00       .00    170.47       .16       .19       .04    175.90
   5000.0        .0    4989.5      10.5        .0    1574.9      24.9      36.4       3.1    167.00
      .10       .00      3.17       .42      .000      .035      .070      .000    153.70   4937.73
  .000206      680.      481.      320.         2         0         0       .00    141.83   5079.56


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      6.56 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .47


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

  208.000     11.86    170.16       .00       .00    170.65       .49       .02       .17    175.70
   5000.0        .0    5000.0        .0        .0     890.7        .0      37.8       3.2 100000.00
      .10       .00      5.61       .00      .000      .035      .000      .000    158.30   4962.93
  .000931       50.       50.       50.         3         0         0       .00     75.16   5038.09


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.20

CLASS A LOW FLOW

3420 BRIDGE W.S.=     170.07 BRIDGE VELOCITY=       6.16     CALCULATED CHANNEL AREA=       812.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	170.70	.05	0.	5000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	11.91	170.21	.00	.00	170.70	.49	.05	.00	177.90
5000.0	.0	5000.0	.0	.0	894.3	.0	38.7	3.3	100000.00
.10	.00	5.59	.00	.000	.016	.000	.000	158.30	4962.94
.000192	45.	45.	45.	0	0	0	.00	75.13	5038.07

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.127	169.411	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.127	169.411	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.411	169.661	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.411	169.661	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.661	170.311	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	169.661	170.311	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	170.311	170.163	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	170.311	170.163	206.000	208.000

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         7.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 6.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 6

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     11.37 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     20.57    170.77       .00    170.00    171.17       .40       .00       .00    170.60
    6000.0        .5    5999.5        .0       3.3    1185.2        .0        .0        .0 100000.00
       .00       .14      5.06       .00      .050      .035      .000      .000    150.20   4910.87
   .000572        0.        0.        0.         0         0         4       .00    133.14   5044.01

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED      9.25 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     20.55    171.05       .00       .00    171.48       .43       .30       .01    172.00
    6000.0        .0    6000.0        .0        .0    1143.7        .0      14.0       1.3 100000.00
       .03       .00      5.25       .00      .000      .035      .000      .000    150.50   4959.72
   .000578      510.      522.      545.         2         0         0       .00     85.40   5045.12

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      6.41 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     18.81    171.31       .00       .00    171.92       .62       .39       .06    174.60
    6000.0        .0    6000.0        .0        .0     951.0        .0      26.4       2.3 100000.00
       .05       .00      6.31       .00      .000      .035      .000      .000    152.50   4946.19
   .001009      470.      516.      541.         2         0         0       .00     81.43   5027.62

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED      9.38 FEET

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.25
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
  206.000     18.28    171.98       .00       .00    172.15       .17       .18       .04    175.90
   6000.0        .0    5969.4      30.6        .0    1789.0      56.4      41.7       3.5    167.00
      .09       .00      3.34       .54      .000      .035      .070      .000    153.70   4934.67
  .000199      680.      481.      320.         2         0         0       .00    152.48   5087.15


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      8.21 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .47


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

  208.000     13.51    171.81       .00       .00    172.36       .54       .02       .19    175.70
   6000.0        .0    6000.0        .0        .0    1014.7        .0      43.4       3.7 100000.00
      .09       .00      5.91       .00      .000      .035      .000      .000    158.30   4962.92
  .000907       50.       50.       50.         3         0         0       .00     75.18   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      1.57 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.20

CLASS A LOW FLOW

3420 BRIDGE W.S.=     171.70 BRIDGE VELOCITY=       6.49     CALCULATED CHANNEL AREA=       925.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	172.41	.06	0.	6000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	13.57	171.87	.00	.00	172.41	.54	.05	.00	177.90
6000.0	.0	6000.0	.0	.0	1018.6	.0	44.4	3.8	100000.00
.10	.00	5.89	.00	.000	.016	.000	.000	158.30	4962.93
.000187	45.	45.	45.	0	0	0	.00	75.15	5038.08

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	170.773	171.052	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	170.773	171.052	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.052	171.306	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.052	171.306	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.306	171.980	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.306	171.980	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.980	171.813	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	.00	.00	.00	2	171.980	171.813	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         8.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 7.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 7

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     12.38 FEET


3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     21.58    171.78       .00    170.00    172.21       .43       .00       .00    170.60
    6842.9      60.4    6782.5        .0      86.3    1282.1        .0        .0        .0 100000.00
       .00       .70      5.29       .00      .050      .035      .000      .000    150.20   4861.00
   .000575        0.        0.        0.         0         0         3       .00    184.48   5045.48


*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     10.25 FEET


3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     21.55    172.05       .00       .00    172.55       .50       .32       .02    172.00
    7000.0        .0    7000.0        .0        .0    1230.4        .0      15.6       1.6 100000.00
       .03       .01      5.69       .00      .050      .035      .000      .000    150.50   4956.82
   .000646      510.      522.      545.         2         0         0       .00     89.80   5046.62


*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      7.44 FEET


3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     19.83    172.33       .00       .00    173.04       .71       .43       .06    174.60
    7000.0        .0    7000.0        .0        .0    1036.5        .0      29.0       2.7 100000.00
       .05       .00      6.75       .00      .000      .035      .000      .000    152.50   4943.50
   .001093      470.      516.      541.         2         0         0       .00     85.03   5028.54


*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     10.49 FEET


3301 HV CHANGED MORE THAN HVINS
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.27


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     19.39    173.09       .00       .00    173.29       .20       .20       .05    175.90
    7000.0        .0    6946.0      54.0        .0    1934.2      84.4      45.7       4.0    167.00
       .08       .00      3.59       .64      .000      .035      .070      .000    153.70   4932.64
   .000213      680.      481.      320.         2         0         0       .00    159.56   5092.20


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      9.29 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .47


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     14.59    172.89       .00       .00    173.53       .63       .02       .22    175.70
    7000.0        .0    7000.0        .0        .0    1095.9        .0      47.5       4.1 100000.00
       .09       .00      6.39       .00      .000      .035      .000      .000    158.30   4962.92
   .000982       50.       50.       50.         3         0         0       .00     75.18   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      2.66 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.20
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS A LOW FLOW

3420 BRIDGE W.S.= 172.76 BRIDGE VELOCITY= 7.01 CALCULATED CHANNEL AREA= 998.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	173.59	.07	0.	7000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	14.66	172.96	.00	.00	173.59	.63	.06	.00	177.90
7000.0	.0	7000.0	.0	.0	1100.7	.0	48.6	4.2	100000.00
.09	.00	6.36	.00	.000	.016	.000	.000	158.30	4962.93
.000203	45.	45.	45.	0	0	0	.00	75.16	5038.09

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
157.08	157.08	.00	157.08	157.08	.00	5	171.783	172.051	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	171.783	172.051	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	172.051	172.333	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	172.051	172.333	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	172.333	173.090	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	172.333	173.090	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	173.090	172.892	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	157.08	157.08	.00	5	173.090	172.892	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         9.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 8.                -1.
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 8

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     12.96 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.16    172.36       .00    170.00    172.80       .44       .00       .00    170.60
    7346.6     128.9    7217.7        .0     136.6    1337.6        .0        .0        .0 100000.00
       .00       .94      5.40       .00      .050      .035      .000      .000    150.20   4861.00
   .000570        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     10.78 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.08    172.58       .00       .00    173.19       .61       .34       .05    172.00
    7994.4       1.9    7992.5        .0       5.3    1277.7        .0      16.5       1.7 100000.00
       .02       .36      6.26       .00      .050      .035      .000      .000    150.50   4940.19
   .000752      510.      522.      545.         2         0         0       .00    107.23   5047.42

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.02 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     20.41    172.91       .00       .00    173.76       .84       .49       .07    174.60
    7994.4        .0    7994.4        .0        .0    1086.7        .0      30.5       2.9 100000.00
       .04       .00      7.36       .00      .000      .035      .000      .000    152.50   4941.98
   .001258      470.      516.      541.         2         0         0       .00     87.07   5029.05

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.20 FEET

3301 HV CHANGED MORE THAN HVINS
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     20.10    173.80       .00       .00    174.04       .23       .22       .06    175.90
    7994.4        .0    7917.5      76.9        .0    2028.9     105.3      48.1       4.2    167.00
       .08       .00      3.90       .73      .000      .035      .070      .000    153.70   4931.33
   .000239      680.      481.      320.         2         0         0       .00    164.12   5095.45


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED      9.97 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .46


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     15.27    173.57       .00       .00    174.32       .76       .02       .26    175.70
    8000.0        .0    8000.0        .0        .0    1146.5        .0      50.0       4.3 100000.00
       .08       .00      6.98       .00      .000      .035      .000      .000    158.30   4962.91
   .001122       50.       50.       50.         3         0         0       .00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.35 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS A LOW FLOW

3420 BRIDGE W.S.= 173.41 BRIDGE VELOCITY= 7.67 CALCULATED CHANNEL AREA= 1043.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	174.40	.09	0.	8000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	15.35	173.65	.00	.00	174.40	.75	.08	.00	177.90
8000.0	.0	8000.0	.0	.0	1152.8	.0	51.2	4.4	100000.00
.08	.00	6.94	.00	.000	.016	.000	.000	158.30	4962.92
.000231	45.	45.	45.	0	0	0	.00	75.17	5038.09

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
607.10	607.00	.02	607.10	607.00	.02	8	172.356	172.584	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
40.72	40.02	1.72	647.82	647.02	.12	8	172.356	172.584	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	647.82	647.02	.12	8	172.584	172.915	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	647.82	647.02	.12	8	172.584	172.915	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	647.82	647.02	.12	8	172.915	173.804	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	647.82	647.02	.12	8	172.915	173.804	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	647.82	647.02	.12	8	173.804	173.566	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
5.58	5.53	.90	653.40	652.56	.13	8	173.804	173.566	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 I  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         10.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 9.                -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 9

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     13.31 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.51    172.71       .00    170.00    173.17       .46       .00       .00    170.60
    7700.9     181.4    7519.5        .0     167.9    1372.2        .0        .0        .0 100000.00
       .00      1.08      5.48       .00      .050      .035      .000      .000    150.20   4861.00
   .000571        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.09 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.39    172.89       .00       .00    173.62       .73       .37       .08    172.00
    8973.6       6.4    8967.2        .0      12.4    1305.2        .0      17.1       1.8 100000.00
       .02       .52      6.87       .00      .050      .035      .000      .000    150.50   4930.58
   .000888      510.      522.      545.         2         0         0       .00    117.30   5047.89

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.39 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     20.79    173.29       .00       .00    174.29      1.00       .58       .08    174.60
    8973.6        .0    8973.6        .0        .0    1118.4        .0      31.5       3.0 100000.00
       .04       .00      8.02       .00      .000      .035      .000      .000    152.50   4941.04
   .001469      470.      516.      541.         3         0         0       .00     88.34   5029.38

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     11.74 FEET

3301 HV CHANGED MORE THAN HVINS
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.33


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     20.64    174.34       .00       .00    174.61       .27       .25       .07    175.90
    8973.6        .0    8873.5     100.1        .0    2100.1     122.4      49.7       4.3    167.00
       .07       .00      4.23       .82      .000      .035      .070      .000    153.70   4930.36
   .000270      680.      481.      320.         2         0         0       .00    167.52   5097.88


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.45 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .46


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     15.75    174.05       .00       .00    174.95       .90       .03       .31    175.70
    9000.0        .0    9000.0        .0        .0    1183.0        .0      51.7       4.5 100000.00
       .07       .00      7.61       .00      .000      .035      .000      .000    158.30   4962.91
   .001295       50.       50.       50.         3         0         0       .00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
      .90       1.56       2.60        .00      75.00       6.00    1173.00       .00     158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      3.86 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS A LOW FLOW

3420 BRIDGE W.S.= 173.86 BRIDGE VELOCITY= 8.38 CALCULATED CHANNEL AREA= 1074.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	175.05	.11	0.	9000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	15.86	174.16	.00	.00	175.05	.89	.10	.00	177.90
9000.0	.0	9000.0	.0	.0	1191.2	.0	52.9	4.6	100000.00
.07	.00	7.56	.00	.000	.016	.000	.000	158.30	4962.92
.000265	45.	45.	45.	0	0	0	.00	75.17	5038.09

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1055.86	1060.32	.42	1055.86	1060.32	.42	13	172.712	172.892	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
216.88	216.83	.02	1272.74	1277.15	.35	13	172.712	172.892	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1272.74	1277.15	.35	13	172.892	173.285	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1272.74	1277.15	.35	13	172.892	173.285	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1272.74	1277.15	.35	13	173.285	174.337	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1272.74	1277.15	.35	13	173.285	174.337	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1272.74	1277.15	.35	13	174.337	174.051	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
26.39	26.59	.73	1299.13	1303.74	.35	13	174.337	174.051	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         11.                                .00057                                170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 10.              -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF10

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     13.59 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     22.79    172.99       .00    170.00    173.45       .46       .00       .00    170.60
    7982.4     226.3    7756.1        .0     191.9    1398.7        .0        .0        .0 100000.00
       .00      1.18      5.55       .00      .050      .035      .000      .000    150.20   4861.00
   .000572        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.31 FEET

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.61    173.11       .00       .00    173.98       .87       .41       .12    172.00
    9937.8      12.4    9925.4        .0      19.1    1324.6        .0      17.6       1.8 100000.00
       .02       .65      7.49       .00      .050      .035      .000      .000    150.50   4924.10
   .001041      510.      522.      545.         2         0         0       .00    124.11   5048.21

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.67 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.07    173.57       .00       .00    174.75      1.17       .68       .09    174.60
    9937.8        .0    9937.8        .0        .0    1144.0        .0      32.3       3.1 100000.00
       .04       .00      8.69       .00      .000      .035      .000      .000    152.50   4940.28
   .001696      470.      516.      541.         3         0         0       .00     89.35   5029.63

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     12.20 FEET

3301 HV CHANGED MORE THAN HVINS
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.37


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     21.10    174.80       .00       .00    175.12       .32       .29       .09    175.90
    9937.8        .0    9813.1     124.7        .0    2162.6     138.4      51.0       4.4    167.00
       .07       .00      4.54       .90      .000      .035      .070      .000    153.70   4929.51
   .000302      680.      481.      320.         2         0         0       .00    170.48   5099.99


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     10.86 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     16.16    174.46       .00       .00    175.52      1.05       .03       .37    175.70
   10000.0        .0   10000.0        .0        .0    1213.9        .0      53.1       4.6 100000.00
       .07       .00      8.24       .00      .000      .035      .000      .000    158.30   4962.91
   .001483       50.       50.       50.         3         0         0       .00     75.19   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30    158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      4.97 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.35
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
176.22	175.64	.15	0.	10000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	16.97	175.27	.00	.00	176.22	.96	.71	.00	177.90
10000.0	.0	10000.0	.0	.0	1274.4	.0	54.4	4.7	100000.00
.07	.00	7.85	.00	.000	.016	.000	.000	158.30	4962.91
.000269	45.	45.	45.	2	0	0	.00	75.19	5038.10

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1490.41	1490.91	.03	1490.41	1490.91	.03	17	172.986	173.108	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
465.02	464.54	.10	1955.43	1955.44	.00	17	172.986	173.108	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	3.39	1955.43	1955.44	.00	17	173.108	173.573	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1955.43	1955.44	.00	17	173.108	173.573	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1955.43	1955.44	.00	17	173.573	174.802	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1955.43	1955.44	.00	17	173.573	174.802	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	1955.43	1955.44	.00	17	174.802	174.462	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
62.17	62.20	.05	2017.60	2017.64	.00	17	174.802	174.462	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (lb)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         12.                                .00057                                170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 11.              -1.
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF11

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     13.82 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     23.02    173.22       .00    170.00    173.69       .47       .00       .00    170.60
    8228.9     267.6    7961.3        .0     212.3    1421.3        .0        .0        .0 100000.00
       .00      1.26      5.60       .00      .050      .035      .000      .000    150.20   4861.00
   .000573        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.48 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.78    173.28       .00       .00    174.30      1.02       .44       .16    172.00
   10880.5      20.7   10859.8        .0      25.0    1339.8        .0      17.9       1.8 100000.00
       .02       .83      8.11       .00      .050      .035      .000      .000    150.50   4924.10
   .001205      510.      522.      545.         2         0         0       .00    124.36   5048.46

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      8.92 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.32    173.82       .00       .00    175.17      1.35       .78       .10    174.60
   10887.2        .0   10887.2        .0        .0    1166.1        .0      32.9       3.1 100000.00
       .03       .00      9.34       .00      .000      .035      .000      .000    152.50   4939.64
   .001935      470.      516.      541.         3         0         0       .00     90.21   5029.85

 SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     12.63 FEET
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.41


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     21.53    175.23       .00       .00    175.59       .36       .32       .10    175.90
   10887.2        .0   10735.4     151.7        .0    2221.3     154.3      52.2       4.5    167.00
       .06       .00      4.83       .98      .000      .035      .070      .000    153.70   4928.72
   .000334      680.      481.      320.         2         0         0       .00    175.94   5104.66


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     11.24 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     16.54    174.84       .00       .00    176.05      1.22       .03       .43    175.70
   11000.0        .0   11000.0        .0        .0    1242.1        .0      54.2       4.6 100000.00
       .06       .00      8.86       .00      .000      .035      .000      .000    158.30   4962.90
   .001677       50.       50.       50.         3         0         0       .00     75.19   5038.10


SPECIAL BRIDGE

3070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
      .90       1.56       2.60        .00      75.00       6.00    1173.00       .00     158.30     158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      5.60 FEET
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.39

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
176.97	176.21	.18	0.	11000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	17.59	175.89	.00	.00	176.97	1.08	.91	.00	177.90
11000.0	.0	11000.0	.0	.0	1321.5	.0	55.6	4.7	100000.00
.06	.00	8.32	.00	.000	.016	.000	.000	158.30	4962.91
.000293	45.	45.	45.	2	0	0	.00	75.19	5038.10

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1906.04	1902.12	.21	1906.04	1902.12	.21	18	173.219	173.277	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
745.57	748.67	.42	2651.61	2650.80	.03	18	173.219	173.277	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
6.63	6.74	1.67	2658.24	2657.54	.03	18	173.277	173.820	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2658.24	2657.54	.03	18	173.277	173.820	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2658.24	2657.54	.03	18	173.820	175.235	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2658.24	2657.54	.03	18	173.820	175.235	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	2658.24	2657.54	.03	18	175.235	174.837	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
112.84	113.14	.26	2771.08	2770.67	.01	18	175.235	174.837	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         13.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 12.              -1.
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF12

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     14.02 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     23.22    173.42       .00    170.00    173.90       .48       .00       .00    170.60
    8445.6     305.4    8140.3        .0     229.9    1440.7        .0        .0        .0 100000.00
       .00      1.33      5.65       .00      .050      .035      .000      .000    150.20   4861.00
   .000574        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.61 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     22.91    173.41       .00       .00    174.58      1.17       .47       .21    172.00
   11762.7      29.2   11733.5        .0      29.5    1351.8        .0      18.2       1.8 100000.00
       .02       .99      8.68       .00      .050      .035      .000      .000    150.50   4924.10
   .001368      510.      522.      545.         2         0         0       .00    124.40   5048.50

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      9.13 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.53    174.03       .00       .00    175.57      1.54       .88       .11    174.60
   11805.5        .0   11805.5        .0        .0    1185.0        .0      33.4       3.1 100000.00
       .03       .00      9.96       .00      .000      .035      .000      .000    152.50   4939.09
   .002181      470.      516.      541.         3         0         0       .00     90.94   5030.04

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     13.04 FEET
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.45


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     21.94    175.64       .00       .00    176.04       .40       .35       .11    175.90
   11822.1        .0   11635.8     186.2        .0    2275.9     176.2      53.2       4.6    167.00
       .06       .00      5.11      1.06      .000      .035      .070      .000    153.70   4927.98
   .000365      680.      481.      320.         2         0         0       .00    198.42   5126.40


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     11.58 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     16.88    175.18       .00       .00    176.57      1.39       .04       .50    175.70
   12000.0        .0   12000.0        .0        .0    1267.6        .0      55.3       4.7 100000.00
       .06       .00      9.47       .00      .000      .035      .000      .000    158.30   4962.90
   .001881       50.       50.       50.         3         0         0       .00     75.20   5038.10


SPECIAL BRIDGE

3070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30    158.30

*SECNO 210.000
3280 CROSS SECTION    210.00 EXTENDED      6.22 FEET
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.45

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
177.71	176.76	.23	0.	12000.	1173.	1173.	175.30	177.80	0.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	18.22	176.52	.00	.00	177.71	1.19	1.14	.00	177.90
12000.0	.0	12000.0	.0	.0	1368.6	.0	56.7	4.8	100000.00
.06	.00	8.77	.00	.000	.016	.000	.000	158.30	4962.91
.000315	45.	45.	45.	2	0	0	.00	75.19	5038.10

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2277.77	2276.11	.07	2277.77	2276.11	.07	27	173.419	173.410	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1039.30	1037.09	.21	3317.08	3313.20	.12	27	173.419	173.410	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
29.96	29.73	.79	3347.04	3342.92	.12	27	173.410	174.028	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
12.84	12.53	2.49	3359.88	3355.45	.13	27	173.410	174.028	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	3359.88	3355.45	.13	27	174.028	175.636	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
16.58	16.41	1.03	3376.46	3371.86	.14	27	174.028	175.636	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	3376.46	3371.86	.14	27	175.636	175.175	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
177.91	177.81	.06	3554.37	3549.66	.13	27	175.636	175.175	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

          14.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 13.               -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF13

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     14.17 FEET


3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     23.37    173.57       .00    170.00    174.05       .48       .00       .00    170.60
    8607.3     334.2    8273.0        .0     242.8    1454.9        .0        .0        .0 100000.00
       .00      1.38      5.69       .00      .050      .035      .000      .000    150.20   4861.00
   .000575        0.        0.        0.         0         0         4       .00    184.80   5045.80


*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.70 FEET


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     23.00    173.50       .00       .00    174.79      1.29       .50       .24    172.00
   12445.8      36.1   12409.7        .0      32.6    1360.0        .0      18.5       1.8 100000.00
       .02      1.10      9.12       .00      .050      .035      .000      .000    150.50   4924.10
   .001501      510.      522.      545.         2         0         0       .00    124.40   5048.50


*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      9.27 FEET


3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.67    174.17       .00       .00    175.89      1.71       .97       .13    174.60
   12583.0        .0   12583.0        .0        .0    1198.2        .0      33.8       3.1 100000.00
       .03       .00     10.50       .00      .000      .035      .000      .000    152.50   4938.72
   .002405      470.      516.      541.         3         0         0       .00     91.38   5030.10


*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     13.35 FEET
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.49


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     22.25    175.95       .00       .00    176.40       .45       .38       .13    175.90
   12762.8        .0   12541.7     221.1        .0    2318.9     195.7      53.9       4.6    167.00
       .05       .01      5.41      1.13      .045      .035      .070      .000    153.70   4926.66
   .000400      680.      481.      320.         2         0         0       .00    199.73   5126.40


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     11.82 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     17.12    175.42       .00       .00    177.01      1.59       .04       .57    175.70
   13000.0        .0   13000.0        .0        .0    1285.9        .0      56.1       4.7 100000.00
       .06       .00     10.11       .00      .000      .035      .000      .000    158.30   4962.90
   .002117       50.       50.       50.         3         0         0       .00     75.20   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30    158.30

*SECNO 210.000
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

6870 D.S. ENERGY OF 177.01 IS HIGHER THAN COMPUTED ENERGY OF 176.91
3280 CROSS SECTION 210.00 EXTENDED 5.12 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
178.39	177.24	.28	3843.	9208.	1173.	1173.	175.30	177.80	1027.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	17.12	175.42	.00	.00	177.01	1.59	.00	.00	177.90
13000.0	.0	13000.0	.0	.0	1285.5	.0	57.5	4.8	100000.00
.06	.00	10.11	.00	.000	.016	.000	.000	158.30	4962.91
.000443	45.	45.	45.	3	0	4	.00	75.19	5038.10

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2565.38	2558.52	.27	2565.38	2558.52	.27	19	173.565	173.501	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1273.11	1266.02	.56	3838.49	3824.54	.36	19	173.565	173.501	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
61.58	59.99	2.62	3900.08	3884.53	.40	19	173.501	174.173	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
75.61	73.22	3.20	3975.68	3957.75	.45	19	173.501	174.173	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	3975.68	3957.75	.45	19	174.173	175.950	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
179.81	178.11	.95	4155.49	4135.86	.47	19	174.173	175.950	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	4155.49	4135.86	.47	19	175.950	175.419	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
237.23	236.81	.18	4392.72	4372.67	.46	19	175.950	175.419	206.000	208.000

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T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY    100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  February 1992
T3      LOWER UVAS (#21)     MAIN CHANNEL W/LOWER LEFT LEVEE FAILURE (1b)

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         15.                                .00057                                    170.0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 14.              -1.
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF14

CCHV=     .100 CEHV=     .300
*SECNO 200.000
3280 CROSS SECTION    200.00 EXTENDED     14.29 FEET

3470 ENCROACHMENT STATIONS=     4861.0    5045.8  TYPE=      1  TARGET=      184.800
   200.000     23.49    173.69       .00    170.00    174.18       .49       .00       .00    170.60
    8751.0     360.4    8390.6        .0     254.0    1467.4        .0        .0        .0 100000.00
       .00      1.42      5.72       .00      .050      .035      .000      .000    150.20   4861.00
   .000575        0.        0.        0.         0         0         4       .00    184.80   5045.80

*SECNO 202.000
3280 CROSS SECTION    202.00 EXTENDED     11.78 FEET

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     4924.1    5048.5  TYPE=      1  TARGET=      124.400
   202.000     23.08    173.58       .00       .00    174.98      1.40       .52       .27    172.00
   13040.2      42.6   12997.6        .0      35.3    1366.9        .0      18.7       1.8 100000.00
       .02      1.21      9.51       .00      .050      .035      .000      .000    150.50   4924.10
   .001621      510.      522.      545.         2         0         0       .00    124.40   5048.50

*SECNO 204.000
3280 CROSS SECTION    204.00 EXTENDED      9.39 FEET

3470 ENCROACHMENT STATIONS=     4937.6    5030.1  TYPE=      1  TARGET=       92.500
   204.000     21.79    174.29       .00       .00    176.17      1.88      1.05       .14    174.60
   13299.5        .0   13299.5        .0        .0    1209.2        .0      34.1       3.1 100000.00
       .03       .00     11.00       .00      .000      .035      .000      .000    152.50   4938.40
   .002621      470.      516.      541.         3         0         0       .00     91.70   5030.10

*SECNO 206.000
3280 CROSS SECTION    206.00 EXTENDED     13.63 FEET
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.53


3470 ENCROACHMENT STATIONS=     4901.1    5126.4  TYPE=      1  TARGET=      225.300
   206.000     22.53    176.23       .00       .00    176.73       .50       .42       .14    175.90
   13705.9        .2   13448.7     257.0        .9    2357.5     213.1      54.6       4.6    167.00
       .05       .21      5.70      1.21      .045      .035      .070      .000    153.70   4922.02
   .000435      680.      481.      320.         2         0         0       .00    204.38   5126.40


CCHV=     .300 CEHV=     .500
*SECNO 208.000
3280 CROSS SECTION    208.00 EXTENDED     12.02 FEET


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     4962.9    5038.1  TYPE=      1  TARGET=       75.200

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=       175.70 ELREA=    100000.00

   208.000     17.32    175.62       .00       .00    177.42      1.80       .04       .65    175.70
   14000.0        .0   14000.0        .0        .0    1301.2        .0      56.8       4.8 100000.00
       .05       .00     10.76       .00      .000      .035      .000      .000    158.30   4962.90
   .002372       50.       50.       50.         3         0         0       .00     75.20   5038.10


SPECIAL BRIDGE

5070, VARIABLE ELCHU OR ELCHD ON SB CARD NOT SPECIFIED
SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      2.60       .00     75.00      6.00   1173.00       .00    158.30    158.30

*SECNO 210.000
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

6870 D.S. ENERGY OF 177.42 IS HIGHER THAN COMPUTED ENERGY OF 177.14
3280 CROSS SECTION 210.00 EXTENDED 5.32 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
179.07	177.70	.35	4759.	9276.	1173.	1173.	175.30	177.80	1138.

3470 ENCROACHMENT STATIONS= 4961.5 5038.1 TYPE= 1 TARGET= 76.600

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 177.90 ELREA= 100000.00

SPRR

210.000	17.32	175.62	.00	.00	177.42	1.80	.00	.00	177.90
14000.0	.0	14000.0	.0	.0	1300.7	.0	58.2	4.9	100000.00
.05	.00	10.76	.00	.000	.016	.000	.000	158.30	4962.91
.000496	45.	45.	45.	3	0	4	.00	75.19	5038.10

TW Sec 200 to 202 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
2807.53	2813.41	.21	2807.53	2813.41	.21	24	173.693	173.578	200.000	202.000

TW Sec 200 to 202 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1481.71	1478.35	.23	4289.24	4291.77	.06	24	173.693	173.578	200.000	202.000

TW Sec 202 to 204 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
99.29	98.21	1.09	4388.53	4389.98	.03	24	173.578	174.294	202.000	204.000

TW Sec 202 to 204 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
160.05	161.49	.89	4548.58	4551.46	.06	24	173.578	174.294	202.000	204.000

TW Sec 204 to 206 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	4548.58	4551.46	.06	24	174.294	176.230	204.000	206.000

TW Sec 204 to 206 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
406.39	408.27	.46	4954.97	4959.73	.10	24	174.294	176.230	204.000	206.000

TW Sec 206 to 208 Left

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
.00	.00	.00	4954.97	4959.73	.10	24	176.230	175.622	206.000	208.000

TW Sec 206 to 208 Right

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
294.08	293.46	.21	5249.05	5253.19	.08	24	176.230	175.622	206.000	208.000

THIS RUN EXECUTED 10JAN94 10:45:18

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HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS (#21) MAI

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
200.000	.00	.00	.00	150.20	1000.00	158.66	.00	158.82	5.67	3.21	311.51	419.98
200.000	.00	.00	.00	150.20	2000.00	162.37	.00	162.60	5.66	3.85	519.52	840.83
200.000	.00	.00	.00	150.20	3000.00	165.14	.00	165.42	5.61	4.23	708.58	1266.54
200.000	.00	.00	.00	150.20	4000.00	167.36	.00	167.68	5.60	4.54	881.19	1689.82
200.000	.00	.00	.00	150.20	5000.00	169.13	.00	169.49	5.75	4.84	1033.05	2085.81
200.000	.00	.00	.00	150.20	6000.00	170.77	.00	171.17	5.72	5.06	1188.43	2509.54
200.000	.00	.00	.00	150.20	6842.92	171.78	.00	172.21	5.75	5.29	1368.38	2854.25
200.000	.00	.00	.00	150.20	7346.60	172.36	.00	172.80	5.70	5.40	1474.26	3076.53
200.000	.00	.00	.00	150.20	7700.86	172.71	.00	173.17	5.71	5.48	1540.11	3222.90
200.000	.00	.00	.00	150.20	7982.40	172.99	.00	173.45	5.72	5.55	1590.62	3338.21
200.000	.00	.00	.00	150.20	8228.92	173.22	.00	173.69	5.73	5.60	1633.63	3438.44
200.000	.00	.00	.00	150.20	8445.63	173.42	.00	173.90	5.74	5.65	1670.59	3525.98
200.000	.00	.00	.00	150.20	8607.28	173.57	.00	174.05	5.75	5.69	1697.67	3590.93
200.000	.00	.00	.00	150.20	8750.95	173.69	.00	174.18	5.75	5.72	1721.40	3648.42
202.000	521.90	.00	.00	150.50	1000.00	158.96	.00	159.11	5.11	3.10	322.91	442.53
202.000	521.90	.00	.00	150.50	2000.00	162.66	.00	162.88	5.20	3.78	529.59	877.23
202.000	521.90	.00	.00	150.50	3000.00	165.43	.00	165.70	5.26	4.23	709.59	1307.92
202.000	521.90	.00	.00	150.50	4000.00	167.64	.00	167.96	5.39	4.60	869.62	1723.40
202.000	521.90	.00	.00	150.50	5000.00	169.41	.00	169.79	5.65	4.96	1008.10	2104.38
202.000	521.90	.00	.00	150.50	6000.00	171.05	.00	171.48	5.78	5.25	1143.74	2494.80
202.000	521.90	.00	.00	150.50	7000.00	172.05	.00	172.55	6.46	5.69	1230.48	2754.21
202.000	521.90	.00	.00	150.50	7994.42	172.58	.00	173.19	7.52	6.26	1283.03	2915.12
202.000	521.90	.00	.00	150.50	8973.61	172.89	.00	173.62	8.88	6.87	1317.61	3010.98
202.000	521.90	.00	.00	150.50	9937.83	173.11	.00	173.98	10.41	7.49	1343.72	3079.73
202.000	521.90	.00	.00	150.50	10880.53	173.28	.00	174.30	12.05	8.11	1364.74	3134.82
202.000	521.90	.00	.00	150.50	11762.70	173.41	.00	174.58	13.68	8.68	1381.34	3180.57
202.000	521.90	.00	.00	150.50	12445.77	173.50	.00	174.79	15.01	9.12	1392.60	3212.11
202.000	521.90	.00	.00	150.50	13040.19	173.58	.00	174.98	16.21	9.51	1402.20	3239.12

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	204.000	516.30	.00	.00	152.50	1000.00	159.25	.00	159.58	14.75	4.57	218.71	260.41
	204.000	516.30	.00	.00	152.50	2000.00	162.92	.00	163.33	11.75	5.11	391.34	583.53
	204.000	516.30	.00	.00	152.50	3000.00	165.67	.00	166.14	10.84	5.48	547.84	911.05
	204.000	516.30	.00	.00	152.50	4000.00	167.88	.00	168.40	10.38	5.78	692.56	1241.78
	204.000	516.30	.00	.00	152.50	5000.00	169.66	.00	170.24	10.31	6.08	821.82	1557.17
	204.000	516.30	.00	.00	152.50	6000.00	171.31	.00	171.92	10.09	6.31	950.96	1889.01
	204.000	516.30	.00	.00	152.50	7000.00	172.33	.00	173.04	10.93	6.75	1036.51	2117.26
	204.000	516.30	.00	.00	152.50	7994.42	172.91	.00	173.76	12.58	7.36	1086.68	2254.06
	204.000	516.30	.00	.00	152.50	8973.61	173.29	.00	174.29	14.69	8.02	1118.38	2341.56
	204.000	516.30	.00	.00	152.50	9937.83	173.57	.00	174.75	16.96	8.69	1143.97	2412.83
	204.000	516.30	.00	.00	152.50	10887.16	173.82	.00	175.17	19.35	9.34	1166.09	2474.84
	204.000	516.30	.00	.00	152.50	11805.51	174.03	.00	175.57	21.81	9.96	1184.99	2528.13
	204.000	516.30	.00	.00	152.50	12582.96	174.17	.00	175.89	24.05	10.50	1198.19	2565.91
	204.000	516.30	.00	.00	152.50	13299.53	174.29	.00	176.17	26.21	11.00	1209.22	2597.91
*	206.000	480.70	.00	.00	153.70	1000.00	159.85	.00	159.94	4.11	2.41	414.76	493.52
*	206.000	480.70	.00	.00	153.70	2000.00	163.49	.00	163.60	2.79	2.60	768.11	1198.05
*	206.000	480.70	.00	.00	153.70	3000.00	166.26	.00	166.38	2.36	2.78	1077.24	1951.62
*	206.000	480.70	.00	.00	153.70	4000.00	168.49	.00	168.63	2.14	2.97	1352.47	2736.91
*	206.000	480.70	.00	.00	153.70	5000.00	170.31	.00	170.47	2.06	3.17	1599.81	3487.81
*	206.000	480.70	.00	.00	153.70	6000.00	171.98	.00	172.15	1.99	3.34	1845.36	4252.28
*	206.000	480.70	.00	.00	153.70	7000.00	173.09	.00	173.29	2.13	3.59	2018.60	4801.79
*	206.000	480.70	.00	.00	153.70	7994.42	173.80	.00	174.04	2.39	3.90	2134.16	5172.64
*	206.000	480.70	.00	.00	153.70	8973.61	174.34	.00	174.61	2.70	4.23	2222.59	5458.63
*	206.000	480.70	.00	.00	153.70	9937.83	174.80	.00	175.12	3.02	4.54	2301.09	5714.04
*	206.000	480.70	.00	.00	153.70	10887.16	175.23	.00	175.59	3.34	4.83	2375.54	5957.67
*	206.000	480.70	.00	.00	153.70	11822.09	175.64	.00	176.04	3.65	5.11	2452.12	6191.18
*	206.000	480.70	.00	.00	153.70	12762.77	175.95	.00	176.40	4.00	5.41	2514.64	6381.43
*	206.000	480.70	.00	.00	153.70	13705.92	176.23	.00	176.73	4.35	5.70	2571.54	6568.99
*	208.000	50.00	.00	.00	158.30	1000.00	160.07	160.07	160.95	157.54	7.55	132.44	79.67
*	208.000	50.00	.00	.00	158.30	2000.00	163.36	.00	163.79	20.92	5.26	379.90	437.23
*	208.000	50.00	.00	.00	158.30	3000.00	166.14	.00	166.55	11.89	5.10	588.73	869.90
*	208.000	50.00	.00	.00	158.30	4000.00	168.36	.00	168.80	9.81	5.29	755.49	1276.88
*	208.000	50.00	.00	.00	158.30	5000.00	170.16	.00	170.65	9.31	5.61	890.72	1639.06
*	208.000	50.00	.00	.00	158.30	6000.00	171.81	.00	172.36	9.07	5.91	1014.71	1992.55
*	208.000	50.00	.00	.00	158.30	7000.00	172.89	.00	173.53	9.82	6.39	1095.88	2233.84
*	208.000	50.00	.00	.00	158.30	8000.00	173.57	.00	174.32	11.22	6.98	1146.50	2387.91
*	208.000	50.00	.00	.00	158.30	9000.00	174.05	.00	174.95	12.95	7.61	1182.98	2500.58
*	208.000	50.00	.00	.00	158.30	10000.00	174.46	.00	175.52	14.83	8.24	1213.90	2597.09
*	208.000	50.00	.00	.00	158.30	11000.00	174.84	.00	176.05	16.77	8.86	1242.12	2686.01
*	208.000	50.00	.00	.00	158.30	12000.00	175.18	.00	176.57	18.81	9.47	1267.59	2766.88
*	208.000	50.00	.00	.00	158.30	13000.00	175.42	.00	177.01	21.17	10.11	1285.94	2825.51
*	208.000	50.00	.00	.00	158.30	14000.00	175.62	.00	177.42	23.72	10.76	1301.24	2874.61

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	210.000	45.40	177.80	175.30	158.30	1000.00	160.74	.00	161.20	11.51	5.47	182.75	294.73
	210.000	45.40	177.80	175.30	158.30	2000.00	163.43	.00	163.85	4.19	5.19	385.07	977.18
	210.000	45.40	177.80	175.30	158.30	3000.00	166.19	.00	166.59	2.44	5.07	592.18	1920.19
*	210.000	45.40	177.80	175.30	158.30	4000.00	168.41	.00	168.84	2.02	5.27	758.80	2811.82
*	210.000	45.40	177.80	175.30	158.30	5000.00	170.21	.00	170.70	1.92	5.59	894.32	3607.14
*	210.000	45.40	177.80	175.30	158.30	6000.00	171.87	.00	172.41	1.87	5.89	1018.61	4383.51
*	210.000	45.40	177.80	175.30	158.30	7000.00	172.96	.00	173.59	2.03	6.36	1100.67	4917.93
*	210.000	45.40	177.80	175.30	158.30	8000.00	173.65	.00	174.40	2.31	6.94	1152.75	5265.35
*	210.000	45.40	177.80	175.30	158.30	9000.00	174.16	.00	175.05	2.65	7.56	1191.19	5525.62
*	210.000	45.40	177.80	175.30	158.30	10000.00	175.27	.00	176.22	2.69	7.85	1274.37	6099.52
*	210.000	45.40	177.80	175.30	158.30	11000.00	175.89	.00	176.97	2.93	8.32	1321.48	6430.73
*	210.000	45.40	177.80	175.30	158.30	12000.00	176.52	.00	177.71	3.15	8.77	1368.64	6766.51
*	210.000	45.40	177.80	175.30	158.30	13000.00	175.42	.00	177.01	4.43	10.11	1285.47	6177.23
*	210.000	45.40	177.80	175.30	158.30	14000.00	175.62	.00	177.42	4.96	10.76	1300.73	6284.34

LOWER UVAS (#21) MAI

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	200.000	1000.00	158.66	.00	.00	-11.34	50.11	.00
	200.000	2000.00	162.37	3.71	.00	-7.63	62.80	.00
	200.000	3000.00	165.14	2.77	.00	-4.86	73.63	.00
	200.000	4000.00	167.36	2.21	.00	-2.64	82.28	.00
	200.000	5000.00	169.13	1.77	.00	-.87	89.20	.00
	200.000	6000.00	170.77	1.65	.00	.77	133.14	.00
	200.000	6842.92	171.78	1.01	.00	1.78	184.48	.00
	200.000	7346.60	172.36	.57	.00	2.36	184.80	.00
	200.000	7700.86	172.71	.36	.00	2.71	184.80	.00
	200.000	7982.40	172.99	.27	.00	2.99	184.80	.00
	200.000	8228.92	173.22	.23	.00	3.22	184.80	.00
	200.000	8445.63	173.42	.20	.00	3.42	184.80	.00
	200.000	8607.28	173.57	.15	.00	3.57	184.80	.00
	200.000	8750.95	173.69	.13	.00	3.69	184.80	.00
	202.000	1000.00	158.96	.00	.29	.00	50.40	521.90
	202.000	2000.00	162.66	3.71	.29	.00	61.13	521.90
	202.000	3000.00	165.43	2.76	.28	.00	69.13	521.90
	202.000	4000.00	167.64	2.21	.28	.00	75.54	521.90
	202.000	5000.00	169.41	1.77	.28	.00	80.67	521.90
	202.000	6000.00	171.05	1.64	.28	.00	85.40	521.90
	202.000	7000.00	172.05	1.00	.27	.00	89.80	521.90
	202.000	7994.42	172.58	.53	.23	.00	107.23	521.90
	202.000	8973.61	172.89	.31	.18	.00	117.30	521.90
	202.000	9937.83	173.11	.22	.12	.00	124.11	521.90
	202.000	10880.53	173.28	.17	.06	.00	124.36	521.90
	202.000	11762.70	173.41	.13	-.01	.00	124.40	521.90
	202.000	12445.77	173.50	.09	-.06	.00	124.40	521.90
	202.000	13040.19	173.58	.08	-.12	.00	124.40	521.90
*	204.000	1000.00	159.25	.00	.29	.00	41.89	516.30
*	204.000	2000.00	162.92	3.67	.26	.00	52.25	516.30
*	204.000	3000.00	165.67	2.75	.25	.00	61.70	516.30
	204.000	4000.00	167.88	2.21	.24	.00	69.43	516.30
	204.000	5000.00	169.66	1.78	.25	.00	75.67	516.30
	204.000	6000.00	171.31	1.64	.25	.00	81.43	516.30
	204.000	7000.00	172.33	1.03	.28	.00	85.03	516.30
	204.000	7994.42	172.91	.58	.33	.00	87.07	516.30
	204.000	8973.61	173.29	.37	.39	.00	88.34	516.30
	204.000	9937.83	173.57	.29	.47	.00	89.35	516.30
	204.000	10887.16	173.82	.25	.54	.00	90.21	516.30
	204.000	11805.51	174.03	.21	.62	.00	90.94	516.30
	204.000	12582.96	174.17	.14	.67	.00	91.38	516.30
	204.000	13299.53	174.29	.12	.72	.00	91.70	516.30

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	206.000	1000.00	159.85	.00	.60	.00	86.39	480.70
	206.000	2000.00	163.49	3.65	.57	.00	105.67	480.70
	206.000	3000.00	166.26	2.77	.59	.00	117.55	480.70
*	206.000	4000.00	168.49	2.23	.61	.00	130.24	480.70
*	206.000	5000.00	170.31	1.82	.65	.00	141.83	480.70
*	206.000	6000.00	171.98	1.67	.67	.00	152.48	480.70
*	206.000	7000.00	173.09	1.11	.76	.00	159.56	480.70
*	206.000	7994.42	173.80	.71	.89	.00	164.12	480.70
*	206.000	8973.61	174.34	.53	1.05	.00	167.52	480.70
*	206.000	9937.83	174.80	.46	1.23	.00	170.48	480.70
*	206.000	10887.16	175.23	.43	1.42	.00	175.94	480.70
*	206.000	11822.09	175.64	.40	1.61	.00	198.42	480.70
*	206.000	12762.77	175.95	.31	1.78	.00	199.73	480.70
*	206.000	13705.92	176.23	.28	1.94	.00	204.38	480.70
*	208.000	1000.00	160.07	.00	.22	.00	75.02	50.00
*	208.000	2000.00	163.36	3.29	-.13	.00	75.07	50.00
*	208.000	3000.00	166.14	2.78	-.12	.00	75.11	50.00
*	208.000	4000.00	168.36	2.22	-.13	.00	75.14	50.00
*	208.000	5000.00	170.16	1.80	-.15	.00	75.16	50.00
*	208.000	6000.00	171.81	1.65	-.17	.00	75.18	50.00
*	208.000	7000.00	172.89	1.08	-.20	.00	75.18	50.00
*	208.000	8000.00	173.57	.67	-.24	.00	75.19	50.00
*	208.000	9000.00	174.05	.49	-.29	.00	75.19	50.00
*	208.000	10000.00	174.46	.41	-.34	.00	75.19	50.00
*	208.000	11000.00	174.84	.38	-.40	.00	75.19	50.00
*	208.000	12000.00	175.18	.34	-.46	.00	75.20	50.00
*	208.000	13000.00	175.42	.24	-.53	.00	75.20	50.00
*	208.000	14000.00	175.62	.20	-.61	.00	75.20	50.00
*	210.000	1000.00	160.74	.00	.67	.00	75.03	45.40
*	210.000	2000.00	163.43	2.70	.07	.00	75.06	45.40
*	210.000	3000.00	166.19	2.76	.05	.00	75.09	45.40
*	210.000	4000.00	168.41	2.22	.05	.00	75.11	45.40
*	210.000	5000.00	170.21	1.80	.05	.00	75.13	45.40
*	210.000	6000.00	171.87	1.65	.06	.00	75.15	45.40
*	210.000	7000.00	172.96	1.09	.07	.00	75.16	45.40
*	210.000	8000.00	173.65	.69	.09	.00	75.17	45.40
*	210.000	9000.00	174.16	.51	.11	.00	75.17	45.40
*	210.000	10000.00	175.27	1.10	.80	.00	75.19	45.40
*	210.000	11000.00	175.89	.63	1.05	.00	75.19	45.40
*	210.000	12000.00	176.52	.63	1.34	.00	75.19	45.40
*	210.000	13000.00	175.42	-1.10	.00	.00	75.19	45.40
*	210.000	14000.00	175.62	.20	.00	.00	75.19	45.40

SUMMARY OF ERRORS AND SPECIAL NOTES

```
WARNING SECNO=    204.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    204.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    204.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    206.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  6  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  7  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  8  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE=  9  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE= 10  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE= 11  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE= 12  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE= 13  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    206.000  PROFILE= 14  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    208.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    208.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    208.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=    208.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  6  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  7  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  8  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE=  9  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE= 10  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE= 11  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE= 12  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE= 13  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    208.000  PROFILE= 14  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    210.000  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=    210.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  5  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  6  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  7  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  8  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE=  9  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE= 10  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE= 11  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE= 12  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE= 13  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    210.000  PROFILE= 14  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
```

Normal program termination

```
HEC2 S/N: **********        HMVersion: 6.40    Data File: S-D101.HC2

*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
 RUN DATE    10JAN94    TIME   10:49:30   *
*******************************************

*************************************
 *  U.S. ARMY CORPS OF ENGINEERS     *
 *  HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D       *
 *  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************

 X     X  XXXXXXX   XXXXX              XXXXX
 X     X  X        X     X            X     X
 X     X  X        X                        X
 XXXXXXX  XXXX     X          XXXXX    XXXXX
 X     X  X        X                  X
 X     X  X        X     X            X
 X     X  XXXXXXX   XXXXX            XXXXXXX


::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
:::                                      :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                      :::
::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::

          ============================
          H A E S T A D   M E T H O D S
          ============================

37 Brookside Road  *  Waterbury, Connecticut  06708  *  (203) 755-1666
```

THIS RUN EXECUTED 10JAN94 10:49:30

```
************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
************************************


T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 1.                -1.                                       -1.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

NC   .025     .025      .025      .3        .5
QT   14.      200.      400.      600.      800.      1000.     1200.     1400.     1600.     1800.
QT   2000.    2200.     2400.     2600.     2800.
X1   1.       8.        0.        2050.     0.        0.        0.
X3                                                    2050.
GR   193.1    0.        193.2     106.4     191.0     591.6     191.4     736.7     190.6     900.
GR   186.8    1390.     186.4     1600.     190.7     1993.     191.5     2050.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000       .48    186.88    186.88       .00    187.01       .13       .00       .00    193.10
     200.0        .0     200.0       .0        .0      68.8        .0        .0        .0    190.70
       .00       .00      2.91       .00      .000      .025      .000      .000    186.40   1380.13
   .014313        0.        0.        0.         0        16         0       .00    263.42   1643.55
```

```
   Run Date:  10JAN94    Run Time: 10:49:30    HMVersion: 6.40    Data File:   S-D101.HC2                    Page    3

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    3.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 2.                -1.                                     -1.
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000       .63    187.03    187.03       .00    187.23       .19       .00       .00    193.10
     400.0        .0     400.0        .0        .0     113.1        .0        .0        .0    190.70
       .00       .00      3.54       .00      .000      .025      .000      .000    186.40   1359.81
   .012903        0.        0.        0.         0        24         0       .00    298.14   1657.96
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    4.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 3.                -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 3

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=       1  TARGET=     2049.999
     1.000       .76    187.16    187.16       .00    187.40       .24       .00       .00    193.10
     600.0        .0     600.0       .0        .0     152.8        .0        .0        .0    190.70
       .00       .00      3.93       .00      .000      .025      .000      .000    186.40   1343.39
   .011987        0.        0.        0.         0        16         0       .00    326.21   1669.60
```

```
   Run Date:  10JAN94    Run Time: 10:49:30    HMVersion: 6.40    Data File:   S-D101.HC2                    Page    7

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    5.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 4.                -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 4

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000       .87    187.27    187.27       .00    187.55       .28       .00       .00    193.10
     800.0        .0     800.0        .0        .0     189.5        .0        .0        .0    190.70
       .00       .00      4.22       .00      .000      .025      .000      .000    186.40   1329.40
   .011433        0.        0.        0.         0        13         0       .00    350.11   1679.51
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

 -10.    6.                            -1.

J2 NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 5.                -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 5

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000       .97    187.37     187.37       .00    187.67       .30       .00       .00    193.10
    1000.0        .0    1000.0        .0        .0     226.1        .0        .0        .0    190.70
       .00       .00      4.42       .00      .000      .025      .000      .000    186.40   1316.33
   .010766        0.        0.        0.         0        13         0       .00    372.44   1688.77
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    7.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 6.                -1.                                     -1.
```

```
   Run Date:  10JAN94    Run Time: 10:49:30    HMVersion: 6.40    Data File:   S-D101.HC2                    Page   11

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    7.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 6.                -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 6

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.05    187.45    187.45       .00    187.79       .34       .00       .00    193.10
    1200.0        .0    1200.0       .0        .0     257.7        .0        .0        .0    190.70
       .00       .00      4.66       .00      .000      .025      .000      .000    186.40   1305.66
   .010687        0.        0.        0.         0        16         0       .00    390.68   1696.34
```

```
   Run Date:  10JAN94    Run Time: 10:49:30     HMVersion: 6.40    Data File:   S-D101.HC2                          Page   13

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    8.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 7.                -1.                                     -1.
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 7

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.13    187.53    187.53       .00    187.90       .36       .00       .00    193.10
    1400.0        .0    1400.0       .0        .0     289.8        .0        .0        .0    190.70
       .00       .00      4.83       .00      .000      .025      .000      .000    186.40   1295.30
   .010435        0.        0.        0.         0        21         0       .00    408.38   1703.68
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    9.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 8.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 8

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.21    187.61    187.61       .00    188.00       .39       .00       .00    193.10
    1600.0        .0    1600.0        .0        .0     321.0        .0        .0        .0    190.70
       .00       .00      4.98       .00      .000      .025      .000      .000    186.40   1285.63
   .010215        0.        0.        0.         0        21         0       .00    424.90   1710.53
```

```
   Run Date:  10JAN94    Run Time: 10:49:30    HMVersion: 6.40    Data File:   S-D101.HC2                    Page   17

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    10.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 9.                -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF 9

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.28    187.68    187.68       .00    188.09       .41       .00       .00    193.10
    1800.0        .0    1800.0       .0        .0     351.9        .0        .0        .0    190.70
       .00       .00      5.12       .00      .000      .025      .000      .000    186.40   1276.45
   .009997        0.        0.        0.         0        17         0       .00    440.59   1717.04
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

 -10.    11.                           -1.

J2 NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 10.               -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF10

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.35    187.75    187.75       .00    188.17       .43       .00       .00    193.10
    2000.0        .0    2000.0       .0        .0     381.1        .0        .0        .0    190.70
       .00       .00      5.25       .00      .000      .025      .000      .000    186.40   1268.02
   .009870        0.        0.        0.         0        17         0       .00    455.00   1723.02
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    12.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 11.               -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF11

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.41    187.81    187.81       .00    188.26       .45       .00       .00    193.10
    2200.0        .0    2200.0       .0        .0     410.3        .0        .0        .0    190.70
       .00       .00      5.36       .00      .000      .025      .000      .000    186.40   1259.89
   .009726        0.        0.        0.         0        17         0       .00    468.89   1728.78
```

```
   Run Date:  10JAN94    Run Time: 10:49:30     HMVersion: 6.40    Data File:   S-D101.HC2                          Page   23

T1       SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2       NOLTE and ASSOCIATES (cda)  April 1992
T3       LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    13.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 12.               -1.                                     -1.
```

```
   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF12

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0    2050.0  TYPE=      1  TARGET=     2049.999
     1.000      1.47    187.87    187.87       .00    188.33       .46       .00       .00    193.10
    2400.0        .0    2400.0        .0        .0     438.8        .0        .0        .0    190.70
       .00       .00      5.47       .00      .000      .025      .000      .000    186.40   1252.16
   .009602        0.        0.        0.         0        17         0       .00    482.10   1734.26
```

```
   Run Date:  10JAN94    Run Time: 10:49:30     HMVersion: 6.40    Data File:   S-D101.HC2                          Page   25

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  FLOW OVER 101

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    14.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 14.               -1.                                     -1.
```

```
   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*PROF13

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0    2050.0  TYPE=       1  TARGET=      2049.999
     1.000      1.53    187.93    187.93       .00    188.41       .48       .00       .00    193.10
    2600.0        .0    2600.0       .0        .0     467.0        .0        .0        .0    190.70
       .00       .00      5.57       .00      .000      .025      .000      .000    186.40   1244.70
   .009477        0.        0.        0.         0        13         0       .00    494.84   1739.54
```

THIS RUN EXECUTED 10JAN94 10:49:34

```
************************************
HEC-2 WATER SURFACE PROFILES

Version   4.6.2;  May 1991
************************************
```

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1.000	.00	.00	.00	186.40	200.00	186.88	186.88	187.01	143.13	2.91	68.82	16.72
*	1.000	.00	.00	.00	186.40	400.00	187.03	187.03	187.23	129.03	3.54	113.07	35.21
*	1.000	.00	.00	.00	186.40	600.00	187.16	187.16	187.40	119.87	3.93	152.84	54.80
*	1.000	.00	.00	.00	186.40	800.00	187.27	187.27	187.55	114.33	4.22	189.52	74.82
*	1.000	.00	.00	.00	186.40	1000.00	187.37	187.37	187.67	107.66	4.42	226.14	96.38
*	1.000	.00	.00	.00	186.40	1200.00	187.45	187.45	187.79	106.87	4.66	257.72	116.08
*	1.000	.00	.00	.00	186.40	1400.00	187.53	187.53	187.90	104.35	4.83	289.81	137.05
*	1.000	.00	.00	.00	186.40	1600.00	187.61	187.61	188.00	102.15	4.98	321.05	158.30
*	1.000	.00	.00	.00	186.40	1800.00	187.68	187.68	188.09	99.97	5.12	351.87	180.03
*	1.000	.00	.00	.00	186.40	2000.00	187.75	187.75	188.17	98.70	5.25	381.14	201.31
*	1.000	.00	.00	.00	186.40	2200.00	187.81	187.81	188.26	97.26	5.36	410.26	223.08
*	1.000	.00	.00	.00	186.40	2400.00	187.87	187.87	188.33	96.02	5.47	438.76	244.92
*	1.000	.00	.00	.00	186.40	2600.00	187.93	187.93	188.41	94.77	5.57	467.02	267.08

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1.000	200.00	186.88	.00	.00	.00	263.42	.00
*	1.000	400.00	187.03	.16	.00	.00	298.14	.00
*	1.000	600.00	187.16	.13	.00	.00	326.21	.00
*	1.000	800.00	187.27	.11	.00	.00	350.11	.00
*	1.000	1000.00	187.37	.10	.00	.00	372.44	.00
*	1.000	1200.00	187.45	.08	.00	.00	390.68	.00
*	1.000	1400.00	187.53	.08	.00	.00	408.38	.00
*	1.000	1600.00	187.61	.07	.00	.00	424.90	.00
*	1.000	1800.00	187.68	.07	.00	.00	440.59	.00
*	1.000	2000.00	187.75	.07	.00	.00	455.00	.00
*	1.000	2200.00	187.81	.06	.00	.00	468.89	.00
*	1.000	2400.00	187.87	.06	.00	.00	482.10	.00
*	1.000	2600.00	187.93	.06	.00	.00	494.84	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      1.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  5  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  6  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  7  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  8  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  9  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 10  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 11  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 12  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 13  CRITICAL DEPTH ASSUMED
```

Normal program termination

HEC2 S/N: ********** HMVersion: 6.40 Data File: S-DCREEK.HC2

```
*******************************************
*  HEC-2 WATER SURFACE PROFILES           *
*                                         *
*  Version   4.6.2;  May 1991             *
*                                         *
*  RUN DATE    10JAN94    TIME   10:49:56 *
*******************************************
```

```
*************************************
 *  U.S. ARMY CORPS OF ENGINEERS      *
 *  HYDROLOGIC ENGINEERING CENTER     *
*  609 SECOND STREET, SUITE D        *
 *  DAVIS, CALIFORNIA 95616-4687      *
*          (916) 756-1104            *
*************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                  X     X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

```
::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
:::                                      :::
:::   FULL MICRO-COMPUTER IMPLEMENTATION   :::
:::                                      :::
::::::::::::::::::::::::::::::::::::::::::::
::::::::::::::::::::::::::::::::::::::::::::
```

```
============================
H A E S T A D   M E T H O D S
============================
```

37 Brookside Road * Waterbury, Connecticut 06708 * (203) 755-1666

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page    1


                                                                                THIS RUN EXECUTED  10JAN94    10:49:56
*************************************
HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************


T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

         2.                                -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 1.                -1.                                       -1.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

 150.

NC   .040     .040      .040      .3        .5
QT   14.      200.      400.      600.      800.      1000.     1200.     1400.     1600.     1800.
QT   2000.    2200.     2400.     2600.     2800.
X1   1.       8.        0.        2692.6    0.        0.        0.
GR   186.9    0.        186.4     402.6     187.5     719.9     189.7     1243.     190.7     1553.2
GR   191.5    2074.     192.6     2562.2    192.1     2692.6
```

```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3720 CRITICAL DEPTH ASSUMED
     1.000       .38    186.78    186.78       .00    186.88       .10       .00       .00    186.90
     200.0        .0     200.0        .0        .0      79.6        .0        .0        .0    192.10
       .00       .00      2.51       .00      .000      .040      .000      .000    186.40     95.37
   .041640        0.        0.        0.         0        13         0       .00    417.30    512.66
```

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page    3

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    3.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 2.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .00 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .50    186.90    186.90       .00    187.03       .13       .00       .00    186.90
     400.0        .0     400.0        .0        .0     138.2        .0        .0        .0    192.10
       .00       .00      2.89       .00      .000      .040      .000      .000    186.40       .00
   .038056        0.        0.        0.         0        16         0       .00    547.62    547.62
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    4.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 3.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 3

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .08 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .58    186.98    186.98       .00    187.15       .17       .00       .00    186.90
     600.0        .0     600.0        .0        .0     183.4        .0        .0        .0    192.10
       .00       .00      3.27       .00      .000      .040      .000      .000    186.40       .00
   .035283        0.        0.        0.         0        19         0       .00    570.91    570.91
```

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page    7

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    5.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 4.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 4

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .16 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .66    187.06    187.06       .00    187.25       .19       .00       .00    186.90
     800.0        .0     800.0        .0        .0     227.0        .0        .0        .0    192.10
       .00       .00      3.52       .00      .000      .040      .000      .000    186.40       .00
   .032351        0.        0.        0.         0        19         0       .00    592.55    592.55
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    6.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 5.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 5

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .22 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .72    187.12    187.12       .00    187.34       .22       .00       .00    186.90
    1000.0        .0    1000.0        .0        .0     264.2        .0        .0        .0    192.10
       .00       .00      3.79       .00      .000      .040      .000      .000    186.40       .00
   .031733        0.        0.        0.         0        22         0       .00    610.37    610.37
```

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page   11

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    7.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 6.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 6

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .28 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .78    187.18    187.18       .00    187.43       .24       .00       .00    186.90
    1200.0        .0    1200.0       .0        .0     302.2        .0        .0        .0    192.10
       .00       .00      3.97       .00      .000      .040      .000      .000    186.40       .00
   .030324        0.        0.        0.         0        22         0       .00    628.09    628.09
```

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page   13

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    8.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 7.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 7

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .34 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .84    187.24    187.24       .00    187.50       .26       .00       .00    186.90
    1400.0        .0    1400.0        .0        .0     339.7        .0        .0        .0    192.10
       .00       .00      4.12       .00      .000      .040      .000      .000    186.40       .00
   .028972        0.        0.        0.         0        22         0       .00    645.06    645.06
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    9.                            -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 8.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 8

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .39 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .89    187.29    187.29       .00    187.58       .29       .00       .00    186.90
    1600.0        .0    1600.0       .0        .0     371.3        .0        .0        .0    192.10
       .00       .00      4.31       .00      .000      .040      .000      .000    186.40       .00
   .028939        0.        0.        0.         0        25         0       .00    659.06    659.06
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    10.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 9.                -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF 9

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .44 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .94    187.34    187.34       .00    187.65       .31       .00       .00    186.90
    1800.0        .0    1800.0        .0        .0     404.7        .0        .0        .0    192.10
       .00       .00      4.45       .00      .000      .040      .000      .000    186.40       .00
   .028286        0.        0.        0.         0        25         0       .00    673.54    673.54
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    11.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 10.               -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF10

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=      .300 CEHV=      .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .49 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000       .99    187.39    187.39       .00    187.71       .32       .00       .00    186.90
    2000.0        .0    2000.0        .0        .0     438.0        .0        .0        .0    192.10
       .00       .00      4.57       .00      .000      .040      .000      .000    186.40       .00
   .027598        0.        0.        0.         0        25         0       .00    687.62    687.62
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    12.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 11.               -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF11

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .54 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000      1.04    187.44    187.44       .00    187.77       .34       .00       .00    186.90
    2200.0        .0    2200.0       .0        .0     471.1        .0        .0        .0    192.10
       .00       .00      4.67       .00      .000      .040      .000      .000    186.40       .00
   .026888        0.        0.        0.         0        25         0       .00    701.39    701.39
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES ( cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

 1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    13.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 12.               -1.                                     -1.
```

```
T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

 -10.    13.                           -1.

J2 NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 12.              -1.                                    -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF12

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .58 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000      1.08    187.48    187.48       .00    187.83       .35       .00       .00    186.90
    2400.0        .0    2400.0        .0        .0     503.6        .0        .0        .0    192.10
       .00       .00      4.77       .00      .000      .040      .000      .000    186.40       .00
   .026266        0.        0.        0.         0        25         0       .00    714.63    714.63
```

```
   Run Date:  10JAN94    Run Time: 10:49:56    HMVersion: 6.40    Data File:   S-DCREEK.HC2                    Page   25

T1      SANTA CLARA COUNTY FLOOD INSURANCE STUDY   100-YEAR DISCHARGE
T2      NOLTE and ASSOCIATES (cda)  April 1992
T3      LOWER UVAS (#21)        STAGE-DISCHARGE:  RETURN FLOW TO CREEK

    ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

  -10.    14.                           -1.

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

 14.               -1.                                     -1.
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

```
*PROF13

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS


CCHV=     .300 CEHV=     .500
*SECNO 1.000
2096 WSEL NOT GIVEN, AVG OF MAX, MIN USED
3280 CROSS SECTION      1.00 EXTENDED       .62 FEET

3720 CRITICAL DEPTH ASSUMED
     1.000      1.12    187.52    187.52       .00    187.89       .37       .00       .00    186.90
    2600.0        .0    2600.0        .0        .0     530.0        .0        .0        .0    192.10
       .00       .00      4.91       .00      .000      .040      .000      .000    186.40       .00
   .026466        0.        0.        0.         0        28         0       .00    724.29    724.29
```

THIS RUN EXECUTED 10JAN94 10:50:01

****
EC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1.000	.00	.00	.00	186.40	200.00	186.78	186.78	186.88	416.40	2.51	79.61	9.80
*	1.000	.00	.00	.00	186.40	400.00	186.90	186.90	187.03	380.56	2.89	138.21	20.50
*	1.000	.00	.00	.00	186.40	600.00	186.98	186.98	187.15	352.83	3.27	183.36	31.94
*	1.000	.00	.00	.00	186.40	800.00	187.06	187.06	187.25	323.51	3.52	227.02	44.48
*	1.000	.00	.00	.00	186.40	1000.00	187.12	187.12	187.34	317.33	3.79	264.17	56.14
*	1.000	.00	.00	.00	186.40	1200.00	187.18	187.18	187.43	303.24	3.97	302.20	68.91
*	1.000	.00	.00	.00	186.40	1400.00	187.24	187.24	187.50	289.72	4.12	339.66	82.25
*	1.000	.00	.00	.00	186.40	1600.00	187.29	187.29	187.58	289.39	4.31	371.30	94.05
*	1.000	.00	.00	.00	186.40	1800.00	187.34	187.34	187.65	282.86	4.45	404.74	107.02
*	1.000	.00	.00	.00	186.40	2000.00	187.39	187.39	187.71	275.98	4.57	437.97	120.39
*	1.000	.00	.00	.00	186.40	2200.00	187.44	187.44	187.77	268.88	4.67	471.12	134.17
*	1.000	.00	.00	.00	186.40	2400.00	187.48	187.48	187.83	262.66	4.77	503.63	148.09
*	1.000	.00	.00	.00	186.40	2600.00	187.52	187.52	187.89	264.66	4.91	530.05	159.82

LOWER UVAS (#21)

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1.000	200.00	186.78	.00	.00	.00	417.30	.00
*	1.000	400.00	186.90	.12	.00	.00	547.62	.00
*	1.000	600.00	186.98	.08	.00	.00	570.91	.00
*	1.000	800.00	187.06	.08	.00	.00	592.55	.00
*	1.000	1000.00	187.12	.06	.00	.00	610.37	.00
*	1.000	1200.00	187.18	.06	.00	.00	628.09	.00
*	1.000	1400.00	187.24	.06	.00	.00	645.06	.00
*	1.000	1600.00	187.29	.05	.00	.00	659.06	.00
*	1.000	1800.00	187.34	.05	.00	.00	673.54	.00
*	1.000	2000.00	187.39	.05	.00	.00	687.62	.00
*	1.000	2200.00	187.44	.05	.00	.00	701.39	.00
*	1.000	2400.00	187.48	.05	.00	.00	714.63	.00
*	1.000	2600.00	187.52	.04	.00	.00	724.29	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=      1.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  5  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  6  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  7  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  8  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE=  9  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 10  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 11  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 12  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.000  PROFILE= 13  CRITICAL DEPTH ASSUMED
```

Normal program termination